From gumbear at pacbell.net Wed May 2 13:37:04 2012
From: gumbear at pacbell.net (Arden Allen)
Date: Wed, 2 May 2012 10:37:04 -0700
Subject: [BoatAnchors] QST old style
Message-ID: <000701cd288a$490cdcb0$ec9e480c@KB6NAX>

Paper weevils,

I have a collection of pre-70's small format QST's I'm willing to pack and ship if anyone still wants those. Let me know before I give them to recycle.

Arden Allen
KB6NAX

If you pick up a starving dog and
make him prosperous, he will not
bite you. This is the principle
difference between a dog and
a man. -Mark Twain

From BoatAnchors at quantcat.cotse.net Fri May 4 00:06:38 2012
From: BoatAnchors at quantcat.cotse.net (A2Fan)
Date: Fri, 4 May 2012 00:06:38 -0400
Subject: [BoatAnchors] Tektronix RM45A oscilloscope for give-away (Baltimore pickup only)
References: <000701cd288a$490cdcb0$ec9e480c@KB6NAX>
Message-ID: <MTAwMDAwMy5xdWFudGNhdA.1336104392@quikprotect>

Hello to the list (after many years of lurking)!!

This is in working order, but is excess to my needs.

Please contact me off-list for details.

From arc5 at ix.netcom.com Fri May 4 07:38:24 2012
From: arc5 at ix.netcom.com (David Stinson)
Date: Fri, 4 May 2012 06:38:24 -0500
Subject: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!
Message-ID: <18DADB29BAF244559EA080EC8435A9EC@DaddyPC>

You know, after 40 years of fixing this stuff, you'd think
a lesson or two would sink into my wooden head.
But....

I'm resurrecting a pair of WWII Navy DAG portable direction finders. I needed to replace some .1 bypasses. So I tacked-in some NOS caps I bought at our local surplus outlet (Knock Knock, David...First clue... why were they surplused in the first place, ya big dummy?). And.... my screen voltages were still low. Hmmmm. So I wasted lots of time scratching my head over the diagram looking for possiblities. Long story short- one of the "new" caps was shorted. Argh!

Moral: Before you install it, check it!

73 DE Dave AB5S

From rbsingl at ilstu.edu Fri May 4 08:59:49 2012
From: rbsingl at ilstu.edu (Singley, Rodger)
Date: Fri, 4 May 2012 12:59:49 +0000
Subject: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!
In-Reply-To: <18DADB29BAF244559EA080EC8435A9EC@DaddyPC>
References: <18DADB29BAF244559EA080EC8435A9EC@DaddyPC>
Message-ID: <0DEBF1C8D8437248BE53CD4213B89BD318DB2377@ISUEMBX02.ad.ilstu.edu>

Dave,

But even brand new, NOS can be a rare problem. Several years ago I completed a restoration of my Pierson KP-81 receiver including spending several hours on the painfully difficult to repair front end module. Around 6 months after this restoration the receiver suddenly went silent and my first fear was what did I miss in the front end (I had replaced every passive component in that section to avoid future issues). The failure was a brand new dipped mica cap in one of the IF sections and fortunately those are easy to access because the sub-chassis unplugs after you remove four bolts and two shaft couplers. The mica that failed was a standard 500 volt rated unit that never sees over 10 volts in operation but it had a dead short. No component is perfect including this U.S. produced component that was less than 1 year old at the time of installation.

Rodger WQ9E

Dr. Rodger B. Singley
Professor of Marketing

-----Original Message-----

From: boatanchors-bounces at theporch.com [mailto:boatanchors-bounces at theporch.com] On Behalf Of David Stinson
Sent: Friday, May 04, 2012 6:38 AM
To: milsurplus at mailman.qth.net; boatanchors at theporch.com; boatanchors at mailman.qth.net
Subject: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!

You know, after 40 years of fixing this stuff, you'd think a lesson or two would sink into my wooden head.
But....

I'm resurrecting a pair of WWII Navy DAG portable direction finders. I needed to replace some .1 bypasses.
So I tacked-in some NOS caps I bought at our local surplus outlet (Knock Knock, David...First clue...
why were they surplused in the first place, ya big dummy?).
And.... my screen voltages were still low. Hmmmm.
So I wasted lots of time scratching my head over the diagram looking for possiblities.
Long story short- one of the "new" caps was shorted. Argh!

Moral: Before you install it, check it!

73 DE Dave AB5S

____
BoatAnchors mailing list
BoatAnchors at theporch.com
https://minime.theporch.com/mailman/listinfo/boatanchors

From gumbear at pacbell.net Fri May 4 12:58:47 2012
From: gumbear at pacbell.net (Arden Allen)
Date: Fri, 4 May 2012 09:58:47 -0700
Subject: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!
References: <18DADB29BAF244559EA080EC8435A9EC@DaddyPC>
Message-ID: <004e01cd2a1a$8741dfd0$b79f480c@KB6NAX>

Ya know Dave, speaking of generating sawdust, the rub most folks don't get is why caps fail. It's not because they have voltage applied to them or because they were made defective. It's because they deteriorate to a failure prone state from moisture ingress that rots their guts. A "NOS" paper cap is no better than one wired into a rig at the factory. Just throw your NOS caps out unless you have verified they are somehow defying the odds by decades. If you want things to look original gut the old caps and slide today's smaller film caps inside the outer casing of the vintage caps.

Arden Allen
KB6NAX

A lie can travel halfway around the world while
the truth is putting on its shoes. -Mark Twain

> You know, after 40 years of fixing this stuff, you'd think
a lesson or two would sink into my wooden head.
But....

From arc5 at ix.netcom.com Fri May 4 13:58:31 2012
From: arc5 at ix.netcom.com (David Stinson)
Date: Fri, 4 May 2012 12:58:31 -0500
Subject: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!
In-Reply-To: <004e01cd2a1a$8741dfd0$b79f480c@KB6NAX>
References: <18DADB29BAF244559EA080EC8435A9EC@DaddyPC>
     <004e01cd2a1a$8741dfd0$b79f480c@KB6NAX>
Message-ID: <E8A70A12F42349BCBB78858F36F91668@DaddyPC>

Arden said:

> ..... A "NOS" paper cap is no better than one
>wired into a rig at the factory...

I actually agree.
By "NOS," I didn't mean "old originals."
These caps are "new production but unused and surplused"
Polyester Film caps.
Perhaps my definition of "NOS" needs correcting.

As for really "old caps" like Micamolds and paper-
I've thrown-away all the low-voltage ones and
have, after long testing, successfully deployed a few
hi-volters in low-voltage situations. Some have been
in service without trouble for years. I remember one failure,
but at 45 volts B+ it did no harm.
The RAAF AR8 receiver has all but one original WWII
black-tar-and-paper cap still in it, running at 90V B+.
I have left it on for 48 straight hours with no issues.
It runs cool and stable.
The AT5 transmitter had the same type caps and
all but one of them was bad beyond hope.
Go figure ;-) and "Each to his own."

73 DE Dave AB5S

----- Original Message -----
From: "Arden Allen" <gumbear at pacbell.net>
To: "David Stinson" <arc5 at ix.netcom.com>;
<milsurplus at mailman.qth.net>; <boatanchors at theporch.com>;
<boatanchors at mailman.qth.net>
Sent: Friday, May 04, 2012 11:58 AM
Subject: Re: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!

From spr at earthlink.net Fri May 4 14:10:10 2012
From: spr at earthlink.net (Scott Robinson)
Date: Fri, 04 May 2012 11:10:10 -0700
Subject: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!
In-Reply-To: <E8A70A12F42349BCBB78858F36F91668@DaddyPC>
References: <18DADB29BAF244559EA080EC8435A9EC@DaddyPC>
     <004e01cd2a1a$8741dfd0$b79f480c@KB6NAX>
     <E8A70A12F42349BCBB78858F36F91668@DaddyPC>
Message-ID: <4FA41B82.9030902@earthlink.net>

Folks,

Back in the usenet days, a discussion group called rec.antiques.radio+phono existed...and may still do so.

One of the participants was a retired radio repair guy, and he *insisted* that you should NOT change all the caps in a radio, only the one(s) causing a problem, claiming that otherwise you were cheating your customer. After about three days of exchanges basically saying, "Are you nuts?", someone thought to ask this guy where he levied.

The answer came back: Phoenix, Arizona.

He had been fixing radios that had lived for most of their service lives in a 10% or so humidity climate, so moisture had not done nearly the damage it would otherwise do.

This difference may account for some radios having may bad caps (Florida...?) and others few (Arizona...?).

Keep 'em glowing!

/scott

From wb3fau55 at neo.rr.com Fri May 4 19:42:25 2012
From: wb3fau55 at neo.rr.com (wb3fau55 at neo.rr.com)

Date: Fri, 4 May 2012 19:42:25 -0400
Subject: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!
In-Reply-To: <E8A70A12F42349BCBB78858F36F91668@DaddyPC>
Message-ID: <20120504234225.RXE3I.249417.root@cdptpa-web25-z02>

failure mode-call it Murphys law. not to rehash this, but you have all seen
old electrolytics 50 years old
still working FB. yet, a small value cap as a bypass or coupler can fail in a
few years. these new film type
should hold up well? Russ.
---- David Stinson <arc5 at ix.netcom.com> wrote:
> Arden said:
>
> > ..... A "NOS" paper cap is no better than one
> >wired into a rig at the factory...
> I actually agree.
> By "NOS," I didn't mean "old originals."
> These caps are "new production but unused and surplused"
> Polyester Film caps.
> Perhaps my definition of "NOS" needs correcting.
>
> As for really "old caps" like Micamolds and paper-
> I've thrown-away all the low-voltage ones and
> have, after long testing, successfully deployed a few
> hi-volters in low-voltage situations. Some have been
> in service without trouble for years. I remember one failure,
> but at 45 volts B+ it did no harm.
> The RAAF AR8 receiver has all but one original WWII
> black-tar-and-paper cap still in it, running at 90V B+.
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> It runs cool and stable.
> The AT5 transmitter had the same type caps and
> all but one of them was bad beyond hope.
> Go figure ;-) and "Each to his own."
>
> 73 DE Dave AB5S
>
>
>
> ----- Original Message -----
> From: "Arden Allen" <gumbear at pacbell.net>
> To: "David Stinson" <arc5 at ix.netcom.com>;
> <milsurplus at mailman.qth.net>; <boatanchors at theporch.com>;
> <boatanchors at mailman.qth.net>
> Sent: Friday, May 04, 2012 11:58 AM
> Subject: Re: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!
>
> ____

> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From k1lky at earthlink.net Fri May 4 22:01:04 2012
From: k1lky at earthlink.net (Roy Morgan)
Date: Fri, 4 May 2012 22:01:04 -0400
Subject: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!
In-Reply-To: <18DADB29BAF244559EA080EC8435A9EC@DaddyPC>
References: <18DADB29BAF244559EA080EC8435A9EC@DaddyPC>
Message-ID: <6FFD4D94-1D0E-4113-A100-522B0A902213@earthlink.net>

On May 4, 2012, at 7:38 AM, David Stinson wrote:

> I'm resurrecting a pair of WWII Navy DAG portable
> direction finders. ...
> And.... my screen voltages were still low. ... one of the "new"
> caps was shorted. Argh!

Dave,

I used to work at Teradyne in Boston, makers of automatic test equipment for the electronics industry. We had some 15,000 parts in the parts catalog, many of which were electronic parts. EVERY one was tested before it got to the stock room. Yes, the company MADE the equipment to do that testing, but it was a rule of life there to test every part.

Roy

Roy Morgan
k1lky at earthlink.net
K1LKY Since 1958 - Keep 'em Glowing!

From 4cx250b at muohio.edu Fri May 4 22:29:08 2012
From: 4cx250b at muohio.edu (Jim Garland)
Date: Fri, 4 May 2012 20:29:08 -0600
Subject: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!
In-Reply-To: <6FFD4D94-1D0E-4113-A100-522B0A902213@earthlink.net>

References: <18DADB29BAF244559EA080EC8435A9EC@DaddyPC>
<6FFD4D94-1D0E-4113-A100-522B0A902213@earthlink.net>
Message-ID: <3637FFF0E7B840FD9BB6DDA26A61A9C6@JimsOffice>

I can see the value of testing every part for "mission critical" applications, such as satellites, aircraft engines, hydrogen bombs, etc., and I wouldn't be surprised if some mil spec requirements call for testing components for certain types of military gear. But for everyday consumer or commercial electronics? That seems like a huge waste of money. Heathkit shipped thousands of kits with hundreds or thousands of components and, so far as I know, never tested any of them before shipping. An occasional bad component (and I found one or two, over the forty years I built Heathkits, would just be replaced as a warranty item.
73,
Jim W8ZR

> -----Original Message-----
> From: boatanchors-bounces at theporch.com
[mailto:boatanchors-bounces at theporch.com]
> On Behalf Of Roy Morgan
> Sent: Friday, May 04, 2012 8:01 PM
> To: David Stinson
> Cc: Old Tube Radios
> Subject: Re: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!
>
>
> On May 4, 2012, at 7:38 AM, David Stinson wrote:
>
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> > direction finders. ...
> > And.... my screen voltages were still low. ... one of the "new"
> > caps was shorted. Argh!
>
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> equipment for the electronics industry. We had some 15,000 parts in
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> tested before it got to the stock room. Yes, the company MADE the
> equipment to do that testing, but it was a rule of life there to test
> every part.
>
> Roy
>
>
>
> Roy Morgan
> k1lky at earthlink.net

> K1LKY Since 1958 - Keep 'em Glowing!
>
>
>
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From gumbear at pacbell.net Fri May 4 22:23:01 2012
From: gumbear at pacbell.net (Arden Allen)
Date: Fri, 4 May 2012 19:23:01 -0700
Subject: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!
References:
<18DADB29BAF244559EA080EC8435A9EC@DaddyPC><004e01cd2a1a$8741dfd0$b79f480c@KB6NAX>
<E8A70A12F42349BCBB78858F36F91668@DaddyPC>
Message-ID: <003c01cd2a67$1fc98130$819d480c@KB6NAX>

No problem, Dave. I also, and have, would use a NOS cap in a low voltage,
low impedance circuit also like for a cathode resistor bypass where there is
only a few volts and the leakagre resistance of the cap will never get near
that low. -Arden

Arden said:

> ..... A "NOS" paper cap is no better than one
>wired into a rig at the factory...
I actually agree.
By "NOS," I didn't mean "old originals."
These caps are "new production but unused and surplused"
Polyester Film caps.
Perhaps my definition of "NOS" needs correcting.

....

From gumbear at pacbell.net Fri May 4 22:27:17 2012
From: gumbear at pacbell.net (Arden Allen)
Date: Fri, 4 May 2012 19:27:17 -0700
Subject: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!
References:
<18DADB29BAF244559EA080EC8435A9EC@DaddyPC><004e01cd2a1a$8741dfd0$b79f480c@KB6NAX><
E8A70A12F42349BCBB78858F36F91668@DaddyPC>
<4FA41B82.9030902@earthlink.net>
Message-ID: <003d01cd2a67$215e7910$819d480c@KB6NAX>

Also where in the house the radio is stored, even in California, in the attic warm and dry, in the basement cold and damp. -Arden

Scott sed:

> Back in the usenet days, a discussion group called rec.antiques.radio+phono existed...and may still do so.

One of the participants was a retired radio repair guy, and he *insisted* that you should NOT change all the caps in a radio, only the one(s) causing a problem, claiming that otherwise you were cheating your customer. After about three days of exchanges basically saying, "Are you nuts?", someone thought to ask this guy where he levied.

The answer came back: Phoenix, Arizona.

From k1lky at earthlink.net Fri May 4 23:14:40 2012
From: k1lky at earthlink.net (Roy Morgan)
Date: Fri, 4 May 2012 23:14:40 -0400
Subject: [BoatAnchors] "NOS" Caps: Don't Trust'em; Check'um!
In-Reply-To: <3637FFF0E7B840FD9BB6DDA26A61A9C6@JimsOffice>
References: <18DADB29BAF244559EA080EC8435A9EC@DaddyPC>
     <6FFD4D94-1D0E-4113-A100-522B0A902213@earthlink.net>
     <3637FFF0E7B840FD9BB6DDA26A61A9C6@JimsOffice>
Message-ID: <8E723D85-931B-4338-A73F-44B882616AFD@earthlink.net>

On May 4, 2012, at 10:29 PM, Jim Garland wrote:

> I can see the value of testing every part for "mission critical"
> applications, such as satellites,

Jim and others,

Oh, goodness. I have a small insight into what gets tested for missile use. At one time at Teradyne, (I was final systems test engineer) I worked on a three-refrigerator-sized system that tested transistors (or maybe FETs). It was headed for Raytheon not far away, where it was to be used for some missile program (possibly Patriot). They wanted to test the parts as supplied, then bake, freeze, store, bake and freeze them, then test them again. Compare characteristics. Pull out those which did not meed spec. I have no insight as to whether all or most or just some of the parts they used got this treatment. I did talk to a guy who worked with the system I'd checked out about ten years later. He said that as with most Teradyne systems, it had been powered on since initial delivery, and was working just fine. That made me proud.

> ...But for everyday consumer or
> commercial electronics? That seems like a huge waste of money.

As far as the Teradyne in-house testing was concerned, I think it was justified. Remember, the company built the industry standard equipment to do just that. I remember hearing that it cost mere pennies (if that) to test every part at incoming inspection, but it cost many dollars to isolate a bad part once built into a circuit board if the board did not pass functional testing. And it cost many more dollars, and the companys reputation if the thing failed once it was in the hands of the customer. By the way, at that time (early 70's) the systems we built were guaranteed for ten years. As I understand it, that was pretty much unheard of. I just read a General Radio Experimenter that told of their instituting a TWO year guarantee on their instruments.

Testing is not a yes or no situation. I agree that especially with modern parts, commercial and consumer stuff deserves much less care. There are test engineers who specialize in developing the testing to be applied for whatever the product is meant for. More and more complicated equipment has built in test systems. Your car air bag system may well be testing itself more or less continuously, but an eight dollar calculator is a whole different thing.

Roy

Roy Morgan
k1lky at earthlink.net
K1LKY Since 1958 - Keep 'em Glowing!

From BoatAnchors at quantcat.cotse.net Sat May 5 10:06:06 2012
From: BoatAnchors at quantcat.cotse.net (A2Fan)
Date: Sat, 5 May 2012 10:06:06 -0400
Subject: [BoatAnchors] Tektronix RM45A oscilloscope for give-away
     (Baltimorepickup only)
References: <000701cd288a$490cdcb0$ec9e480c@KB6NAX>
     <MTAwMDAwMy5xdWFudGNhdA.1336104392@quikprotect>
Message-ID: <MTAwMDAxOS5xdWFudGNhdA.1336226761@quikprotect>

----- Original Message -----

From: "A2Fan" <BoatAnchors at quantcat.cotse.net>
To: "Old Tube Radios (new)" <boatanchors at minime.theporch.com>
Sent: Friday, May 04, 2012 12:06 AM
Subject: [BoatAnchors] Tektronix RM45A oscilloscope for give-away (Baltimorepickup only)

> Hello to the list (after many years of lurking)!!
>
> This is in working order, but is excess to my needs.
>
>
> Please contact me off-list for details.
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors
>
>

Any takers on this?

Price is still $0

For the few on the list who may not know, a Tektronix RM45A is the same as a 545A, 33 MHZ bandpass, except in a rack-mount configuration, and with a hard-wired plug instead of the round (and hard-to-find) detachable plug of the 545A. It takes the same letter-series plugins. Stan Griffiths characterizes this as a "very good" general purpose oscilloscope.

I could ship this (at cost), but the weight makes shipping expensive, hence the pick-up idea.

From arc5 at ix.netcom.com Sun May 6 09:17:31 2012
From: arc5 at ix.netcom.com (David Stinson)
Date: Sun, 6 May 2012 08:17:31 -0500
Subject: [BoatAnchors] DX-100 Vandalism
Message-ID: <9B1FED033DC0487DAFB08E7EB2C1280D@DaddyPC>

What possesses some doofuss to doodle on the face of
a DX-100 transmitter with a scribe??
He didn't have any paper handy?
Item 300703535896

From arc5 at ix.netcom.com Sun May 6 17:45:02 2012
From: arc5 at ix.netcom.com (David Stinson)
Date: Sun, 6 May 2012 16:45:02 -0500
Subject: [BoatAnchors] The Cost of Not Taking....
Message-ID: <526E9EEDD2C54D80A48413A670B54FDE@DaddyPC>

...my own advice.   It can be high.
I've followed it many times. This one time I didn't, and....

I'm restoring a pair of WWII Navy portable direction finders,
type DAG. Nice, battery operated rig in cool green wrinkle
like that on a BC-611.   Runs on 1.5 V and 90 V plus -7.5 V bias.
Well, I had one upside-down on the bench and got it
working the night before. Took the A+ lead off and used it
to set the voltage level on a little LM317 board, then shut
everything off and went inside for the evening.
You can see where this is going, right?

Came back to it the next day before my second pot
of coffee (always a bad move). Hooked up the A+ lead
and pulled my first idiot-trick of the day, popping 10 volts
on the A+ line.   Four 1T4s, two 1R5s and a 1S4,
in quiet and dignified silence,
instantly winged their way to Tube Heaven.
My forehead is still brused from banging it on the table....

Anyways. My own advice, which I didn't follow?
First thing- before any power is applied,
when working on a battery-operated tube radio:
PROTECT THE A+ BUSS AGAINST OVERVOLTAGE.
Simple way:
Put three silicon diodes in series for 1.5V buss.
More diodes if a higher volt buss.
Connect anode to the A+ buss and cathode to either ground
or whereever A- goes.
Silicon diodes will sit there like the little rocks they are
until they see around 0.7 volts forward bias each, whereupon
they will conduct. Three in series will, if the A+ buss
goes over 2.1V, clamp the overvoltage to ground and,
if need be, short themselves to protect you tubes.
That 50-cents worth of diodes and ten minutes to install
them would have saved me $30 worth of tubes.

In these sets there is plenty of room for installing
"Borg Implants" (helpful thingees tacked-in without hacking
the original circuits and which can easily be removed),
I'm now installing what I should have installed in the first place:
One of the cool little LM317 regulator boards

you can get off Ebay for a pittance:-
140743925013 & 120744876580 are examples-
followed by the three diodes with cathode grounded
tied to the buss, which is back-up in case the regulator fails.
Note that the LM317 must be heat-sinked and the tab must
be isolated from ground (unless you find one of those
with the insulated tab). It now takes 4-6 volts at .5 amps
to run the A+ buss, but that's no harder than 1.5 volts
plus I'm protected from my next moronity.
I've posted a photo of the Implants:
http://home.netcom.com/~arc5/DAGsave.jpg

GL OM DE Dave AB5S

From gumbear at pacbell.net Sun May 6 19:24:22 2012
From: gumbear at pacbell.net (Arden Allen)
Date: Sun, 6 May 2012 16:24:22 -0700
Subject: [BoatAnchors] The Cost of Not Taking....
References: <526E9EEDD2C54D80A48413A670B54FDE@DaddyPC>
Message-ID: <001501cd2bdf$7a2fd970$af9d480c@KB6NAX>

Dave,

The LM317 positive and LM337 negative regulators are surely handy devices for rolling your own regulators for things like your battery tube filament supply. But your diode string is not a very robust protection method for the following reason. You have to consider your choice of diode type. For example a 1N4007 pushed to its 1 amp max rating will have a voltage drop greater than 0.7 volts, about 0.95 volts. So at 1 amp the diode will be dissipating 950 milliwatts. It may then, depending on how well it is heat sinked, rise in temperature to 75C where specified current derating takes effect. Three times 0.95 volts = 2.85 volts. That much voltage on a 1.5 amp filament for not very long will ruin its emission making is just about as good as burned out. The question begging for an answer is that if a regulator IC dead shorts input to output how high will the current be in the diode string? Well made 1N4007's can take a lot of abuse but they are not immune to coming apart at extreme overload. One diode in the string opening would do away with overvoltage protection, such as it is, and all the tubes then die. To improve your margin of protection reliability you can use a higher amperage diode, like a 1N5408 3 amp diode which drops 0.75 volts at 1 amp.

If you want to protect your tubes with a dead sure no iffyness method you can emply an SCR crowbar and a fuse that precedes the regulator. If the regulator overvoltages the SCR then fires and applies a short to ground which takes out the fuse. A fuse (and holder), three resistors, a diode, and an SCR will cost you no more than your regulator circuit.

Arden Allen
KB6NAX

The great pleasure of a dog is that you
may make a fool of yourself with him
and not only will he not scold you,
but he will make a fool of himself too.
-Samual Butler

> ....One of the cool little LM317 regulator boards
you can get off Ebay for a pittance:-
140743925013 & 120744876580 are examples-
followed by the three diodes with cathode grounded
tied to the buss, which is back-up in case the regulator fails. ....

From navy.radio at gmail.com Mon May 7 16:50:43 2012
From: navy.radio at gmail.com (Nick England)
Date: Mon, 7 May 2012 16:50:43 -0400
Subject: [BoatAnchors] testing xmtr tubes
Message-ID: <CAB55hNdO3heSmAnAYB3UUHiLV20mBsHbKJWQk8UrBni8K=u-jQ@mail.gmail.com>

Howdy gang - I just came across an interesting publication - one chapter of the GE SSB book is all about how to test transmitting tubes (other than sticking them in your rig and watching for smoke...)
http://n4trb.com/AmateurRadio/GE_HamNews/Sideband_Handbook/
Sideband_Handbook_09.pdf

Thanks to N4TRB, the rest of the GE book (and much more) is at
http://n4trb.com/AmateurRadio/HamDocs.htm

cheers,
Nick K4NYW

From 4cx250b at muohio.edu Mon May 7 17:53:21 2012
From: 4cx250b at muohio.edu (Jim Garland)
Date: Mon, 7 May 2012 15:53:21 -0600
Subject: [BoatAnchors] Capacitor Safety Tip
Message-ID: <7B7BA97E0437447380877F0C19C1B5D4@Garland>

Hi all,

Here's a safety tip that I'd known but forgotten, pertaining to working with high voltage capacitors. This morning I was putting the finishing touches on a homebrew 4500V power supply for a linear amplifier. The power supply uses a bridge rectifier and a 40uF/5000V oil capacitor. I'd been running some heat tests on the supply, checking ventilation, radiated heat from the bleeders, etc., and when I was done I powered down and unplugged the supply. I watched the voltage decay across the capacitor, and when it reached a couple of volts I discharged it the rest of the way with a "chicken stick." I then removed the capacitor from the supply, so I could measure its case temperature with an IR theromometer. (It sits only about an inch from the bleeders, which dissipate 100W and reach about 450F.) After I took the measurements, I went to lunch.

After lunch, I put the capacitor back in the power supply. It's rather heavy so it takes both hands to lower it into position. As I was lowering it, I brushed the top terminals, and ...ZAP! I got one heck of a shock. I grabbed my DMM and measured the voltage across the terminals and it was 175V! In a 40uF capacitor, that much voltage & stored energy is definitely dangerous!

So, my safety tip is to be sure and tie a piece of wire between the terminals of HV capacitors when they're out of a circuit. This is especially important if the capacitor has been recently charged. I've known this for years, but today unwisely decided to cut corners.

73,

Jim Garland W8ZR

From wb3fau55 at neo.rr.com Mon May 7 18:18:28 2012
From: wb3fau55 at neo.rr.com (wb3fau55 at neo.rr.com)
Date: Mon, 7 May 2012 18:18:28 -0400
Subject: [BoatAnchors] Capacitor Safety Tip
In-Reply-To: <7B7BA97E0437447380877F0C19C1B5D4@Garland>
Message-ID: <20120507221828.YLAT3.363540.root@cdptpa-web25-z02>

when I was in high school-[1972] we used to play capacitor roulette. Each player had to lift a cap out of a box by the terminals. [there was only one live cap in a box full of caps] We would charge them up on a variac. Things to do as teenagers in electronics class...Russ.
---- Jim Garland <4cx250b at muohio.edu> wrote:

> Hi all,
>
> Here's a safety tip that I'd known but forgotten, pertaining to working with high voltage capacitors. This morning I was putting the finishing touches on a homebrew 4500V power supply for a linear amplifier. The power supply uses a bridge rectifier and a 40uF/5000V oil capacitor. I'd been running some heat tests on the supply, checking ventilation, radiated heat from the bleeders, etc., and when I was done I powered down and unplugged the supply. I watched the voltage decay across the capacitor, and when it reached a couple of volts I discharged it the rest of the way with a "chicken stick." I then removed the capacitor from the supply, so I could measure its case temperature with an IR theromometer. (It sits only about an inch from the bleeders, which dissipate 100W and reach about 450F.) After I took the measurements, I went to lunch.
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>
>
>
> So, my safety tip is to be sure and tie a piece of wire between the terminals of HV capacitors when they're out of a circuit. This is especially important if the capacitor has been recently charged. I've known this for years, but today unwisely decided to cut corners.
>
> 73,
>
> Jim Garland W8ZR
>
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From navy.radio at gmail.com Mon May 7 21:12:12 2012
From: navy.radio at gmail.com (Nick England)
Date: Mon, 7 May 2012 21:12:12 -0400
Subject: [BoatAnchors] Raleigh NC hamfest boatanchor photos
Message-ID: <CAB55hNfH2VhxA3s2BZf0Vbm2kdUhju32aW0ChK-u9CG8i3f=Fg@mail.gmail.com>

A little late but here's my usual gallery of hamfest boatanchor snaps -

http://www.virhistory.com/ham/rars-12.htm

If you just want to moan about how you don't want to see photos of
another damn hamfest, try hitting "delete".
If you enjoy seeing various pieces of BA gear on display and going on
to new homes, have fun...

cheers,
Nick K4NYW

From richardlo at admin.athabascau.ca Mon May 7 22:30:31 2012
From: richardlo at admin.athabascau.ca (Richard Loken)
Date: Mon, 07 May 2012 20:30:31 -0600 (MDT)
Subject: [BoatAnchors] Raleigh NC hamfest boatanchor photos
In-Reply-To: <CAB55hNfH2VhxA3s2BZf0Vbm2kdUhju32aW0ChK-u9CG8i3f=Fg@mail.gmail.com>
References: <CAB55hNfH2VhxA3s2BZf0Vbm2kdUhju32aW0ChK-u9CG8i3f=Fg@mail.gmail.com>
Message-ID: <alpine.BSF.2.00.1205072029060.80489@discord.bogons>

What a marvelous collection! It is a good thing I wasn't there, I would
have needed to purchase a truck to take it all home.

Truth is, last thing I need in this house is more radios....

```
--
    Richard Loken VE6BSV, Unix System Administrator : "Anybody can be a father
    Athabasca University                            :  but you have to earn
    Athabasca, Alberta Canada                       :  the title of 'daddy'"
    ** richardlo at admin.athabascau.ca **             :  - Lynn Johnston
```

From johnmb at nc.rr.com Tue May 8 19:08:28 2012
From: johnmb at nc.rr.com (john)
Date: Tue, 08 May 2012 19:08:28 -0400
Subject: [BoatAnchors] Raleigh NC hamfest boatanchor photos
In-Reply-To: <CAB55hNfH2VhxA3s2BZf0Vbm2kdUhju32aW0ChK-u9CG8i3f=Fg@mail.g
mail.com>
References: <CAB55hNfH2VhxA3s2BZf0Vbm2kdUhju32aW0ChK-u9CG8i3f=Fg@mail.gmail.com>
Message-ID: <6.2.1.2.2.20120508190800.03b5ceb0@pop-server.nc.rr.com>

Thanks for the photos Nick. For once I came home with more money than I
left with !

John K5MO

At 09:12 PM 5/7/2012, Nick England wrote:

>A little late but here's my usual gallery of hamfest boatanchor snaps -
>http://www.virhistory.com/ham/rars-12.htm
>
>If you just want to moan about how you don't want to see photos of
>another damn hamfest, try hitting "delete".
>If you enjoy seeing various pieces of BA gear on display and going on
>to new homes, have fun...
>
>cheers,
>Nick K4NYW
>____
>BoatAnchors mailing list
>BoatAnchors at theporch.com
>https://minime.theporch.com/mailman/listinfo/boatanchors

From 4cx250b at muohio.edu Thu May 10 19:14:08 2012
From: 4cx250b at muohio.edu (Jim Garland)
Date: Thu, 10 May 2012 17:14:08 -0600
Subject: [BoatAnchors] HV Power Supplies
Message-ID: <0E0E5D878C214EE0A292D7A829E6BD95@JimsOffice>

After my "safety tip" a couple of days ago about my close call working on a new homebrew HV power supply, a couple of folks asked for information about the project. (Actually, there are two power supplies). If you're interested, I posted some info and a couple of photos on my website, which you can see at

http://www.w8zr.net/homebrew/HV%20Power%20Supplies.html

73,

Jim Garland W8ZR

From ebjr37 at charter.net Thu May 10 20:16:57 2012
From: ebjr37 at charter.net (Sandy)
Date: Thu, 10 May 2012 19:16:57 -0500
Subject: [BoatAnchors] HV Power Supplies
In-Reply-To: <0E0E5D878C214EE0A292D7A829E6BD95@JimsOffice>
References: <0E0E5D878C214EE0A292D7A829E6BD95@JimsOffice>
Message-ID: <C18EAB466F664A8CBF39BE6EC3C72ECB@SandysLaptop>

You gotta be hunting DX! Nice looking units! With my XYL ailing I can't build stuff anymore unless it is very simple and straightforward.. No more "undisturbed time" anymore. Last P/S I built was one for the TCS-12 which works very well and no chirp. Partially built with some actual spare TCS components. Chassis is a wood frame with internal bracing and a Masonite top spray painted black. Looks and works nice and was CHEAP. All junk box or scrounged parts!

73,

Sandy W5TVW

-----Original Message-----
From: Jim Garland
Sent: Thursday, May 10, 2012 6:14 PM
To: 'Old Tube Radios'
Subject: [BoatAnchors] HV Power Supplies

After my "safety tip" a couple of days ago about my close call working on a new homebrew HV power supply, a couple of folks asked for information about the project. (Actually, there are two power supplies). If you're interested, I posted some info and a couple of photos on my website, which you can see at

http://www.w8zr.net/homebrew/HV%20Power%20Supplies.html

73,

Jim Garland W8ZR

____
BoatAnchors mailing list
BoatAnchors at theporch.com
https://minime.theporch.com/mailman/listinfo/boatanchors

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2012.0.1913 / Virus Database: 2425/4990 - Release Date: 05/10/12

From ddillman at igc.org Mon May 14 14:17:03 2012
From: ddillman at igc.org (Richard Dillman)
Date: Mon, 14 May 2012 11:17:03 -0700 (GMT-07:00)
Subject: [BoatAnchors] News About Denice
Message-ID: <9962944.1337019423436.JavaMail.root@mswamui-billy.atl.sa.earthlink.net>

As readers of these pages will recall, Denice "DA" Stoops has been an invaluable member of the MRHS team. As the first female Morse operator at KPH she brought her skills and knowledge of procedures to the project. As an enthusiastic practitioner of the art she always enjoyed showing off her skills with her chrome Vibroplex.

DA recently invented a new life for herself by wading through all the bureaucracy needed to go to sea on Military Sealift Command ships. We were all tremendously proud of her.

But now comes some sad news. We have just received word that Denice has had a medical emergency. On Sunday April 22nd she was on board her new ship assignment ready to head out to Vietnam when she suffered a severe stroke. She was medevaced to Khoo Teck Puat Hospital in Singapore where she is currently.

She has had a CAT scan which showed that the bleeding has stopped and she has begun rehabilitation already although she is complaining in well known DA fashion about the "hospital porridge" which we consider to be a good sign.

Good friends are with her. The plan is for her to return home for additional rehabilitation as soon as she is well enough.

DA could use your prayers right now. If you'd like to send a get well card or letter we will forward them to her if you send them to:

Richard Dillman
MRHS
PO Box 392
Point Reyes Station, CA 94956
USA

VY 73,

RD

=================================
Richard Dillman, WPE2VT
Chief Operator, Coast Station KSM
Maritime Radio Historical Society
http://www.radiomarine.org
=================================

From tony at bright.net Tue May 15 09:05:18 2012
From: tony at bright.net (Tony Schroeder)
Date: Tue, 15 May 2012 09:05:18 -0400
Subject: [BoatAnchors] Boatanchors at Dayton
Message-ID: <F6CD6EB6A5484444B446D446978EF208@TONY>

Anyone heading to Dayton? I'll be at Space 2738 (on Friday for sure, and likely Saturday) with several very nice pieces of Boatanchor gear, including:

Hammarlund Super-Pro SP-400x, with speaker & PS
Hammarlund HQ-150
RCA AR-88LF (with Air Ministry markings)
National NC-240D & Speaker
Heathkit DX-60B Transmitter
Heathkit AT-1 Transmitter
Plus, More!

Most of these are in excellent cosmetic condition, and I'm hoping they will all find good homes, just like cute little wayward kittens. :) I'm losing some of my shack space soon, so these need to go.

Stop by for a visit, have a few pretzels, and go home with a radio. I'll even lend you my cart to haul them off.

TNX es 73,

Tony W8HRO

From jim.isbell at gmail.com Wed May 16 15:15:28 2012
From: jim.isbell at gmail.com (Jim Isbell, W5JAI)
Date: Wed, 16 May 2012 14:15:28 -0500
Subject: [BoatAnchors] Is this something for the Audio Fools?
Message-ID: <CAB+LbZCVvp46O=n1RS0ENM+KjfF1wwZxsqC1qj-Gb1JyDA1KAg@mail.gmail.com>

I saw this on Ebay and cannot figure out why its worth $250. Kind of prety, but its just a battery, isnt it?

http://www.ebay.com/itm/170839281477?ssPageName=STRK:MEBIDX:IT&_trksid=p3984.m1952.l2649

Did I miss something in the description?

Jim Isbell
TheFreeRepublicAt.WordPress.com
www.youtube.com/watch?v=BFtoaMM1ChY&feature=related
www.youtube.com/watch?v=dyjJ3Fw0nSQ
www.facebook.com/profile.php?id=100000010609777

Beware the man who only carries one gun. HE PROBABLY KNOWS HOW TO USE IT!!!

From w8au at sssnet.com Wed May 16 15:31:23 2012

From: w8au at sssnet.com (w8au at sssnet.com)
Date: Wed, 16 May 2012 15:31:23 -0400
Subject: [BoatAnchors] Is this something for the Audio Fools?
In-Reply-To: <CAB+LbZCVvp46O=n1RS0ENM+KjfF1wwZxsqC1qj-Gb1JyDA1KAg@mail.g
mail.com>
References: <CAB+LbZCVvp46O=n1RS0ENM+KjfF1wwZxsqC1qj-Gb1JyDA1KAg@mail.gmail.com>
Message-ID: <20120516193808.5E3621D5460E@minime.theporch.com>

At 03:15 PM 5/16/2012, Jim Isbell, W5JAI wrote:
>I saw this on Ebay and cannot figure out why its worth $250. Kind of
>prety, but its just a battery, isnt it?
>
>http://www.ebay.com/itm/170839281477?
ssPageName=STRK:MEBIDX:IT&_trksid=p3984.m1952.l2649

Audiophools, yes.

Looks like a Capacitor bank to allow the high power car audio amps to
deliver 200dB++ audio peaks
to the inhabitants inside.... (hastening their hearing loss)

On the other hand, might help SSB mobile ops running 1.5 kW
amps...(on voice peaks)... :-[

Perry

From gumbear at pacbell.net Wed May 16 17:56:39 2012
From: gumbear at pacbell.net (Arden Allen)
Date: Wed, 16 May 2012 14:56:39 -0700
Subject: [BoatAnchors] Is this something for the Audio Fools?
References: <CAB+LbZCVvp46O=n1RS0ENM+KjfF1wwZxsqC1qj-Gb1JyDA1KAg@mail.gmail.com>
Message-ID: <001601cd33ae$cdf76100$299f480c@KB6NAX>

Jim, thats a capacitor that filters the 12V that powers the mega-bass
subwoofer amp that busts all the welds in the car body on its way to the
scrapper. I'd call him an autofool.

Arden

> I saw this on Ebay and cannot figure out why its worth $250. Kind of
prety, but its just a battery, isnt it?

http://www.ebay.com/itm/170839281477?
ssPageName=STRK:MEBIDX:IT&_trksid=p3984.m1952.l2649

Did I miss something in the description? ....

> Beware the man who only carries one gun. ...

Beware the man who carries only one gun. He probably has something else on his mind.

From john.shriver at gmail.com Wed May 16 19:38:58 2012
From: john.shriver at gmail.com (John Shriver)
Date: Wed, 16 May 2012 19:38:58 -0400
Subject: [BoatAnchors] Is this something for the Audio Fools?
In-Reply-To: <001601cd33ae$cdf76100$299f480c@KB6NAX>
References: <CAB+LbZCVvp46O=n1RS0ENM+KjfF1wwZxsqC1qj-Gb1JyDA1KAg@mail.gmail.com>
     <001601cd33ae$cdf76100$299f480c@KB6NAX>
Message-ID: <4FB43A92.7050700@gmail.com>

Yeah, that's for the cars that go by whomping "boom-f***ah" with out-of-control one-note-bass. Definitely the very absolute opposite of the "golden ear" crowd. (The "golden ears" consider any electrolytic capacitor inherently evil.)

It's a battery in parallel with a couple of Farads.

At the Tech Model Railroad Club in the 1960's, they had an Ohm, a Henry, and a Farad. The latter two devices were improbably large. (I think even the Ohm was pretty big wirewound job.) One never thought that a Henry or a Farad could be a practical unit of anything.

But now 1 Farad capacitors are a real thing, both for this type of high-energy application, and in parallel with coin cell batteries to hold memory while you change the battery.

From herbrose at comcast.net Thu May 17 19:24:05 2012
From: herbrose at comcast.net (Herbert M. Rosenthal)
Date: Thu, 17 May 2012 17:24:05 -0600
Subject: [BoatAnchors] Japanese radio and Albuquerque and the National
     Atomic Museum
Message-ID: <4FB58895.7000902@comcast.net>

If your travels bring you here to/through Albuquerque, make time to visit the National Atomic Museum. It's about an hour's worth of excellent looking about. There is a display of a Japanese 2 piece 'airplane' radio, dated around 1936: model 96-1, and is well described, though all the nameplates are written in Japanese, the placards are in English. There are also displays of early Jackson frequency generators,

various old VTVMs, etc. .. not to mention all the Atomic bomb models,
correspondence from Einstein to Roosevelt, and a history of Los Alamos.

South on Eubank about 4 blocks... which is a few blocks south of I-40
East, and opposite COSTCO, CHILI'S and also Jack in the box... for when
you get hungry, etc.

Forgot the static display of aircraft...

Really worth the time.
Herb W5AN

From johnmb at nc.rr.com Thu May 17 19:35:53 2012
From: johnmb at nc.rr.com (john)
Date: Thu, 17 May 2012 19:35:53 -0400
Subject: [BoatAnchors] Japanese radio and Albuquerque and the National Atomic Museum
In-Reply-To: <4FB58895.7000902@comcast.net>
References: <4FB58895.7000902@comcast.net>
Message-ID: <6.2.1.2.2.20120517193214.03b8fc10@pop-server.nc.rr.com>

At 07:24 PM 5/17/2012, Herbert M. Rosenthal wrote:
>If your travels bring you here to/through Albuquerque, make time to visit
>the National Atomic Museum. (snip)
>South on Eubank about 4 blocks... which is a few blocks south of I-40 East,

I haven't been to the museum since it was moved from on the main base
property (my dad was involved in the moving of the B-52 that was
transported to that site). The museum was interesting at that location and
I'm sure it's better now.

John K5MO

PS: The South Eubank location was also home to some really excellent (and
illegal) elatively safe street racing in the 70s and early 80s, none of
which me, or my 56 Chevy ever was involved in.

From bill at iaxs.net Thu May 17 22:02:40 2012
From: bill at iaxs.net (Bill Hawkins)
Date: Thu, 17 May 2012 21:02:40 -0500
Subject: [BoatAnchors] Japanese radio and Albuquerque and the National Atomic Museum
In-Reply-To: <6.2.1.2.2.20120517193214.03b8fc10@pop-server.nc.rr.com>
References: <4FB58895.7000902@comcast.net>

<6.2.1.2.2.20120517193214.03b8fc10@pop-server.nc.rr.com>
Message-ID: <8FCC0D4AB5E64D6F8931F82F23EE7E47@cyrus>

Visited all of New Mexico's technology museums on a grand tour in April 2010. The Atomic Museum in Albuquerque is excellent, and if it's a hot day, you can stand in the shade of the open bomb bay doors of a B-52. Brings to mind the movie "Fail Safe."

Another excellent museum is the Balloon Museum overlooking the race course field. Don't try this during race week, tho. They have a Japanese incendiary balloon that was one of thousands that floated in the air currents to the northwest coast from Japan during WWII. No radios or guidance aboard, but the engine and timer that dropped incendiary bombs from the balloon is a marvel. Didn't do what they thought it would though - no great forest fires.

Wonderful state to rent a hybrid car. Going down long grades, the fuel range maxes out at 400 miles with 5 gallons in the tank. Put 1000 miles on an Altima driving alone and loved it. Can't get them in Minnesota, too flat.

Sorry I missed you, Herb.

Bill Hawkins

-----Original Message-----
From: boatanchors-bounces at theporch.com
[mailto:boatanchors-bounces at theporch.com] On Behalf Of john
Sent: Thursday, May 17, 2012 6:36 PM
To: Herbert M. Rosenthal; Old Tube Radios
Subject: Re: [BoatAnchors] Japanese radio and Albuquerque and the National Atomic Museum

At 07:24 PM 5/17/2012, Herbert M. Rosenthal wrote:
>If your travels bring you here to/through Albuquerque, make time to visit
>the National Atomic Museum. (snip)
>South on Eubank about 4 blocks... which is a few blocks south of I-40 East,

I haven't been to the museum since it was moved from on the main base property (my dad was involved in the moving of the B-52 that was transported to that site). The museum was interesting at that location and I'm sure it's better now.

John K5MO

PS: The South Eubank location was also home to some really excellent (and

illegal) elatively safe street racing in the 70s and early 80s, none of
which me, or my 56 Chevy ever was involved in.

BoatAnchors mailing list
BoatAnchors at theporch.com
https://minime.theporch.com/mailman/listinfo/boatanchors

From bluegrassdakine at hotmail.com Fri May 18 01:33:43 2012
From: bluegrassdakine at hotmail.com (Raymond Cote)
Date: Thu, 17 May 2012 19:33:43 -1000
Subject: [BoatAnchors] Heathkit Closes, Again. This time for good?
Message-ID: <BAY152-W5669A41427994760373F66A91E0@phx.gbl>

Hope this gets through. Don't know if URLs are allowed.
Ray

http://electronicdesign.com/blog/communique-3/unassigned/heathkit-closes-time-good-73884?cid=ed_newsletter&NL=1&YM_RID=davidwharris at hawaii.rr.com

---

From vilgotch at bigpond.net.au Fri May 18 03:43:39 2012
From: vilgotch at bigpond.net.au (Morris Odell)
Date: Fri, 18 May 2012 17:43:39 +1000
Subject: [BoatAnchors] Japanese radio and Albuquerque and the
     National Atomic Museum
In-Reply-To: <4FB58895.7000902@comcast.net>
References: <4FB58895.7000902@comcast.net>
Message-ID: <002c01cd34c9$f15a24e0$d40e6ea0$@bigpond.net.au>

Another great museum in a similar vein is the Atomic Testing Museum in Las
Vegas. Much more interesting than the casinos IMHO :-) There are great pics
of the test gear including a bank of Tek 519s with a movie camera recording
the displays.

73, Morris VK3DOC

-----Original Message-----
From: boatanchors-bounces at theporch.com
[mailto:boatanchors-bounces at theporch.com] On Behalf Of Herbert M. Rosenthal
Sent: Friday, 18 May 2012 9:24 AM
To: Old Tube Radios
Subject: [BoatAnchors] Japanese radio and Albuquerque and the National
Atomic Museum

If your travels bring you here to/through Albuquerque, make time to visit the National Atomic Museum. It's about an hour's worth of excellent looking about. There is a display of a Japanese 2 piece 'airplane' radio, dated around 1936: model 96-1, and is well described, though all the nameplates are written in Japanese, the placards are in English. There are also displays of early Jackson frequency generators, various old VTVMs, etc. .. not to mention all the Atomic bomb models, correspondence from Einstein to Roosevelt, and a history of Los Alamos.

South on Eubank about 4 blocks... which is a few blocks south of I-40 East, and opposite COSTCO, CHILI'S and also Jack in the box... for when you get hungry, etc.

Forgot the static display of aircraft...

Really worth the time.
Herb W5AN

____
BoatAnchors mailing list
BoatAnchors at theporch.com
https://minime.theporch.com/mailman/listinfo/boatanchors

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2012.0.2176 / Virus Database: 2425/5006 - Release Date: 05/17/12

From sparks at codepoets.com Sat May 19 18:29:59 2012
From: sparks at codepoets.com (Thomas Chirhart)
Date: Sat, 19 May 2012 18:29:59 -0400
Subject: [BoatAnchors] Boatanchors at Dayton
In-Reply-To: <F6CD6EB6A5484444B446D446978EF208@TONY>
References: <F6CD6EB6A5484444B446D446978EF208@TONY>
Message-ID: <A47DE662-CBA3-4CCF-AD79-9B69E546C396@codepoets.com>

Tony's AR-88 has taken residence at the K4NCG QTH, does anyone, perhaps a UK member have the odd 3 pin power connector for this piece of history? I can provide a photo. 73 Tom

Sent from my iPhone

On May 15, 2012, at 9:05 AM, "Tony Schroeder" <tony at bright.net> wrote:

> Anyone heading to Dayton? I'll be at Space 2738 (on Friday for sure, and likely Saturday) with several very nice pieces of Boatanchor gear, including:

>
> Hammarlund Super-Pro SP-400x, with speaker & PS
> Hammarlund HQ-150
> RCA AR-88LF (with Air Ministry markings)
> National NC-240D & Speaker
> Heathkit DX-60B Transmitter
> Heathkit AT-1 Transmitter
> Plus, More!
>
> Most of these are in excellent cosmetic condition, and I'm hoping they will all
find good homes, just like cute little wayward kittens. :) I'm losing some of my
shack space soon, so these need to go.
>
> Stop by for a visit, have a few pretzels, and go home with a radio. I'll even
lend you my cart to haul them off.
>
> TNX es 73,
>
>
> Tony W8HRO
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From ebjr37 at charter.net Sat May 19 21:33:59 2012
From: ebjr37 at charter.net (Sandy)
Date: Sat, 19 May 2012 20:33:59 -0500
Subject: [BoatAnchors] Boatanchors at Dayton
In-Reply-To: <A47DE662-CBA3-4CCF-AD79-9B69E546C396@codepoets.com>
References: <F6CD6EB6A5484444B446D446978EF208@TONY>
     <A47DE662-CBA3-4CCF-AD79-9B69E546C396@codepoets.com>
Message-ID: <165E523B68804656A570237055697F6F@SandysLaptop>

Has anyone seen any RAL or RAK receivers in very good condition or even
pristine?

73,

Sandy W5TVW

-----Original Message-----
From: Thomas Chirhart
Sent: Saturday, May 19, 2012 5:29 PM
To: Tony Schroeder
Cc: <boatanchors at theporch.com>
Subject: Re: [BoatAnchors] Boatanchors at Dayton

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> TNX es 73,
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> ____
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> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

____
BoatAnchors mailing list
BoatAnchors at theporch.com
https://minime.theporch.com/mailman/listinfo/boatanchors

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2012.0.1913 / Virus Database: 2425/5010 - Release Date: 05/19/12

From bluegrassdakine at hotmail.com Sun May 20 13:26:53 2012
From: bluegrassdakine at hotmail.com (Raymond Cote)
Date: Sun, 20 May 2012 07:26:53 -1000
Subject: [BoatAnchors] metal oil caps,
Message-ID: <BAY152-W5683E17C85A4D6244214A0A91C0@phx.gbl>

I have located many 1" by 4" by 4" oil filled Western Electric caps. The voltage is not listed but the insulators on top are at least 1/2 to 5/8th inches high if that means anything. If anyone want some for your power supply of anything else you are building, they will be free for the shipping. They were used on the trans oceanic cable system (SD cable) from Hawaii to Guam. Dates on the caps are in the 60's

Anyone need some caps? I will keep 4 or 5 for myself but the rest are up for grabs.

Ray in IllinoisSend

From arc5 at ix.netcom.com Sun May 20 15:39:03 2012
From: arc5 at ix.netcom.com (David Stinson)
Date: Sun, 20 May 2012 14:39:03 -0500
Subject: [BoatAnchors] Just Awesome
In-Reply-To: <BAY152-W5683E17C85A4D6244214A0A91C0@phx.gbl>
References: <BAY152-W5683E17C85A4D6244214A0A91C0@phx.gbl>
Message-ID: <669D1526B1874989B094EC094AA660F2@DaddyPC>

Someone finally defined the process of audiophoolery:

"Audio Woo"

http://rationalwiki.org/wiki/Audio_woo

From kd5byb at kd5byb.net Sun May 20 16:07:12 2012
From: kd5byb at kd5byb.net (Ben Hall)
Date: Sun, 20 May 2012 15:07:12 -0500
Subject: [BoatAnchors] Just Awesome
In-Reply-To: <669D1526B1874989B094EC094AA660F2@DaddyPC>
References: <BAY152-W5683E17C85A4D6244214A0A91C0@phx.gbl>
     <669D1526B1874989B094EC094AA660F2@DaddyPC>
Message-ID: <4FB94EF0.2050206@kd5byb.net>

That's fantastic. Nearly fell out of my chair laughing as I read it.

I loved the section entitled "The bi-wiring thing" with its illustration that included the terms "Philistine wiring", "Audiophool wiring", and then the caption "It don't make no sense."

Ha ha ha!

What's ironic is that I was reading this while listening to some jazz
music on itunes (digital = evil! and I'm sure apple = evil!), thru my
Logitech speakers/subwoofer (cheap = evil!), thru little tiny wires
(thin = evil!) thinking it sounded pretty darn good... Guess I'm an
audio Philistine... ;)

thanks and 73,
ben, kd5byb

On 5/20/2012 2:39 PM, David Stinson wrote:
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> "Audio Woo"
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> http://rationalwiki.org/wiki/Audio_woo
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> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors
>
>

From w7qho at aol.com Sun May 20 23:08:23 2012
From: w7qho at aol.com (mac)
Date: Sun, 20 May 2012 20:08:23 -0700
Subject: [BoatAnchors] Just Awesome
In-Reply-To: <4FB94EF0.2050206@kd5byb.net>
References: <BAY152-W5683E17C85A4D6244214A0A91C0@phx.gbl>
     <669D1526B1874989B094EC094AA660F2@DaddyPC>
     <4FB94EF0.2050206@kd5byb.net>
Message-ID: <927F78C4-2031-4D6E-92E6-8DFCC4C40AF9@aol.com>

You guys with tin ears are just jealous of the true artists who
recognize, cherish and are willing to pay for audio
perfection...... :^)

Dennis D. w7qho
Glendale, CA

Human beings are passionately attached to their beliefs by interests
that have nothing to do with the truth.

****

On May 20, 2012, at 1:07 PM, Ben Hall wrote:

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>> https://minime.theporch.com/mailman/listinfo/boatanchors
>>
>>
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> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From ebjr37 at charter.net Sun May 20 23:39:48 2012
From: ebjr37 at charter.net (Sandy)
Date: Sun, 20 May 2012 22:39:48 -0500
Subject: [BoatAnchors] Just Awesome
In-Reply-To: <927F78C4-2031-4D6E-92E6-8DFCC4C40AF9@aol.com>
References: <BAY152-W5683E17C85A4D6244214A0A91C0@phx.gbl><669D1526B1874989B094EC094AA660F2@DaddyPC><4FB94EF0.2050206@kd5byb.net>
<927F78C4-2031-4D6E-92E6-8DFCC4C40AF9@aol.com>

Message-ID: <7F1AECC365024FBAA59F6826F3DB48A9@SandysLaptop>

After working around jet aircraft for years and also shooting at ranges with range "roofs", yes I do have 'tin ears'.

BUT>>>>>>>>>>>>>>>>>

There is a very large gob of "snake oil" out there, and is beyond my comprehension that people are "Pfooled"out of their money so easily. Some people seem to have far less brains than greenbacks and a VERY vivid imagination.

It is hard for me to see how some of the tales from the "Audiopfools" are possible. Definitely "crystal ball" stuff!

Remember! "MONEY DOESN'T BUY EVERYTHING!"

73,

Sandy W5TVW

-----Original Message-----
From: mac
Sent: Sunday, May 20, 2012 10:08 PM
To: Boatanchors List
Subject: Re: [BoatAnchors] Just Awesome

You guys with tin ears are just jealous of the true artists who recognize, cherish and are willing to pay for audio perfection...... :^)

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Glendale, CA

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> https://minime.theporch.com/mailman/listinfo/boatanchors

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BoatAnchors at theporch.com
https://minime.theporch.com/mailman/listinfo/boatanchors

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2012.0.1913 / Virus Database: 2425/5012 - Release Date: 05/20/12

From navy.radio at gmail.com Tue May 22 12:32:11 2012
From: navy.radio at gmail.com (Nick England)
Date: Tue, 22 May 2012 12:32:11 -0400
Subject: [BoatAnchors] Dayton & Fair Radio - photos
Message-ID: <CAB55hNeODJD2ZdotcdfMwgmqB_966WPWmL+W7JWKHJmQb8p8qg@mail.gmail.com>

Howdy gang -
John K4OZY, Steve K4TPF, and I headed for the Dayton hamfest last week

with a detour to Fair Radio in Lima
Great fun! - photos of boatanchors at the hamfest and Fair are at -
http://www.virhistory.com/ham/dayton-12.htm
http://www.virhistory.com/ham/fair-12.htm
73 & Have Fun,
Nick K4NYW

From provero at ct.metrocast.net Tue May 22 17:59:52 2012
From: provero at ct.metrocast.net (P.J. Rovero)
Date: Tue, 22 May 2012 17:59:52 -0400
Subject: [BoatAnchors] Antenna Group AN/GRA-93 and antenna coupler CU-1696
Message-ID: <63600.1337723992@ct.metrocast.net>

Anchorites,

I recently received an inquiry about the AN/GRA-93 CU-1696 antenna tuner (or in mil parlance, "coupler, antenna") that was in my shack back in the mid-70's. You can see a picture of it at:

   http://www.roveroresearch.info/home/amateur-radio/the-shacks

in the 1976 shack....

It was a complete mast, guys, antenna *and* tuner, all olive drab in a fold-up canvas kit. I may have bought it at Fair Radio Sales. And I probably sold it in '79 when I headed to WestPac...

The only other web reference I see to the AN/GRA-93 was a DTIC report by SRI about a month-long test in Southeast Asia back in the 70's. http://www.dtic.mil/docs/citations/AD0661100

Does anyone have any tech manuals or other documentation on this antenna group and the CU-1696?

Thanks,

P.J. "Josh" Rovero   Ham Radio: KK1D
Web: http://www.roveroresearch.info
Web2:   http://www.roveroresearch.org

From WA5CAB at cs.com Tue May 22 19:57:17 2012

From: WA5CAB at cs.com (WA5CAB at cs.com)
Date: Tue, 22 May 2012 19:57:17 -0400 (EDT)
Subject: [BoatAnchors] Antenna Group AN/GRA-93 and antenna coupler CU-1696
Message-ID: <c371.1d559a84.3ced81dd@cs.com>

The manual (or a manual) is TM 11-5985-323-15. I have one (somewhere)
acquired 12 years ago.

In a message dated 05/22/2012 17:00:32 PM Central Daylight Time,
provero at ct.metrocast.net writes:
> Anchorites,
>
> I recently received an inquiry about the AN/GRA-93 CU-1696
> antenna tuner (or in mil parlance, "coupler, antenna")
> that was in my shack back in the mid-70's. You can see a
> picture of it at:
>
>   http://www.roveroresearch.info/home/amateur-radio/the-shacks
>
> in the 1976 shack....
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> It was a complete mast, guys, antenna *and* tuner,
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> back in the 70's. http://www.dtic.mil/docs/citations/AD0661100
>
> Does anyone have any tech manuals or other documentation
> on this antenna group and the CU-1696?
>
> Thanks,
>

Robert Downs - Houston
wa5cab dot com (Web Store)
MVPA 9480

From mikew0wg at gmail.com Fri May 25 04:49:48 2012
From: mikew0wg at gmail.com (Mike W0WG)
Date: Fri, 25 May 2012 03:49:48 -0500
Subject: [BoatAnchors] SX-88 bezel found
Message-ID: <8A21268C-C2A6-4170-8C3B-CB9C8D03B469@gmail.com>

Hi Gang,

I'm handling an estate and ran across something someone might be able to use.
It appears to be a new bezel for an SX-88 (at least that is what is marked on the box).
The box came from Dan Arney . . .
THere is also an excellent reproduction SX-88 manual.
Anyway, I have no use for them, so if someone else does, please let me know.

73 de
Mike W0WG
mikew0wg at gmail.com

P.S. there is also a GR 1931-A Modulation Monitor. I have it listed for sale on QTH.com

From hbreuer at debitel.net Fri May 25 04:56:55 2012
From: hbreuer at debitel.net (Heinz Breuer)
Date: Fri, 25 May 2012 10:56:55 +0200
Subject: [BoatAnchors] SX-88 bezel found
In-Reply-To: <8A21268C-C2A6-4170-8C3B-CB9C8D03B469@gmail.com>
References: <8A21268C-C2A6-4170-8C3B-CB9C8D03B469@gmail.com>
Message-ID: <4FBF4957.9060201@debitel.net>

A couple years ago Hank KN6DI made these first class reproductions
bezels available.
vy 73 Heinz DH2FA, KM5VT

Am 25.05.2012 10:49, schrieb Mike W0WG:
> Hi Gang,
>
> I'm handling an estate and ran across something someone might be able to use.
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> The box came from Dan Arney . . .
> THere is also an excellent reproduction SX-88 manual.
> Anyway, I have no use for them, so if someone else does, please let me know.
>
> 73 de
> Mike W0WG
> mikew0wg at gmail.com
>
> P.S. there is also a GR 1931-A Modulation Monitor. I have it listed for sale

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>
>
>
>
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors
>
>

From wb3fau55 at neo.rr.com Fri May 25 14:06:53 2012
From: wb3fau55 at neo.rr.com (wb3fau55 at neo.rr.com)
Date: Fri, 25 May 2012 14:06:53 -0400
Subject: [BoatAnchors] Just Awesome
In-Reply-To: <4FB94EF0.2050206@kd5byb.net>
Message-ID: <20120525180653.06OZU.71776.root@cdptpa-web09-z01>

my recollection of the phools was when a "friend" purchased a set of
$600 phono cables. There was a gathering of friends, we switched out
the cables, we later told him about the changeout, he never heard a
difference in the audio. But he did get quite upset about the
prank, as we all were rolling on the floor about the pricy cables! Russ.
---- Ben Hall <kd5byb at kd5byb.net> wrote:
> That's fantastic. Nearly fell out of my chair laughing as I read it.
>
> I loved the section entitled "The bi-wiring thing" with its illustration
> that included the terms "Philistine wiring", "Audiophool wiring", and
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> >
> >
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From spr at earthlink.net Fri May 25 14:31:57 2012
From: spr at earthlink.net (spr at earthlink.net)
Date: Fri, 25 May 2012 11:31:57 -0700 (GMT-07:00)
Subject: [BoatAnchors] Abotu Bi-Wiring
Message-ID: <25480382.1337970718015.JavaMail.root@mswamui-cedar.atl.sa.earthlink.net>

Folks,

First, I design porfesinal audio products for a living. My home rig is *not* bi-wired, but of the silly stuff you originally mentioned, this is potentially the least silly.

The design premises are tow:

1) The loudspeakers have highly variable and sometimes non-linear input impedances. This is true.

2) The power amp's output impedance is smaller than the round-trip resistance of the speaker cables.

Let's look at the second one.

I) Amp output impedance; this will be a percentage of the load resistance, typically about 3% or less of it at below, say, 1 kHz. 3% of 4 ohms is 0.12 ohms. At high frequencies, the amp's Zout increases.

II) Cable resistance: I will suppose that the speaker wires go around the edge of the listening room, and so might be 30 feet long. That makes the round trip 60 feet. IF you use 18 gauge lamp cord (6.4 ohms per 1000 feet) the round trip resistance is 0.19 ohms If you use 12 gauge (1.6 ohms per 1000 feet) wire--nothing fancy, just plain thick wire, as I do, the round trip resistance is 0.05 ohms.

So, if you use thick wire, I doubt the bi-wiring will do any good at all. If you use #18, it at least could make a small difference. IMHO, high quality speaker wire should always be so thick that its resistance is not a problem, making bi-wiring not useful.

Although I doubt bi-wiring is of much use, it's a *lot* less bogus than, say, very fancy speaker wire that has an arrow pointing towards the speakers (this is AC, remember?) and that is supposed to need two weeks' break-in before its full benefit is achieved. I didn't make up those last two, people buy very expensive wire that is described by its manufacturers in just this way. Oh, and they also sell fancy line cords, too...for USD 700!!!

The main reason that speakers have separate HF and LF terminals is to permit bi-amplification, which can have benefits: no IM distortion in the amps is possible between bass and mid- or high-frequency signals, since the electronic crossover keeps bass outa the HF amp.

Peace,

Scott Robinson

From gumbear at pacbell.net Fri May 25 21:08:01 2012
From: gumbear at pacbell.net (Arden Allen)
Date: Fri, 25 May 2012 18:08:01 -0700
Subject: [BoatAnchors] Abotu Bi-Wiring
References: <25480382.1337970718015.JavaMail.root@mswamui-cedar.atl.sa.earthlink.net>
Message-ID: <001301cd3adc$1a1a9be0$a69e480c@KB6NAX>

Yup, that's right. It's a simple case of trivial pursuit. The reason there is so much nonsense in audio marketing is because of the democratization of enterprise via the internet. Anybody can become a tycoon selling stuff and all that's needed is an internet connection, a vivid imagination, and the conscience of a venus flaytrap.

Arden

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Peace,

Scott Robinson
....

From 4cx250b at muohio.edu Fri May 25 22:15:31 2012
From: 4cx250b at muohio.edu (Jim Garland)
Date: Fri, 25 May 2012 20:15:31 -0600
Subject: [BoatAnchors] Abotu Bi-Wiring
In-Reply-To: <001301cd3adc$1a1a9be0$a69e480c@KB6NAX>

References: <25480382.1337970718015.JavaMail.root@mswamui-
cedar.atl.sa.earthlink.net>
     <001301cd3adc$1a1a9be0$a69e480c@KB6NAX>
Message-ID: <20B2B2F6CCB6496D99D6337DEBA588E2@JimsOffice>

Here's a website for all kinds of "high end" audio stupidity, e.g., speaker cables that damp out damaging microvibrations that ruin audio fidelity:
http://www.lessloss.com/
Jim

From wwatson5 at sbcglobal.net Fri May 25 22:13:49 2012
From: wwatson5 at sbcglobal.net (William Watson)
Date: Fri, 25 May 2012 19:13:49 -0700 (PDT)
Subject: [BoatAnchors] Racal RA6790/GM
Message-ID: <1337998429.50233.YahooMailNeo@web81407.mail.mud.yahoo.com>

I have a Racal RA6790/GM for sale.? It has just been serviced by Gary Wingerd and has new lighted displays and new software.? Crystal filters are 20, 8,3 and 0.5. Front panel is excellent.? Tuning knob has tiny chip that is scarcely noticeable.? No front panel tag, serial number is 9116 (rear tag).
?
If interested conact me at wwatson5 at sbcglobal.net.
?
Joe Watson
W5WBR

From w9ac at arrl.net Fri May 25 22:38:48 2012
From: w9ac at arrl.net (Paul Christensen)
Date: Fri, 25 May 2012 22:38:48 -0400
Subject: [BoatAnchors] Abotu Bi-Wiring
References: <25480382.1337970718015.JavaMail.root@mswamui-
cedar.atl.sa.earthlink.net><001301cd3adc$1a1a9be0$a69e480c@KB6NAX>
     <20B2B2F6CCB6496D99D6337DEBA588E2@JimsOffice>
Message-ID: <23816D4171624A428626B8F62C4F2C87@DBTOA000>

Jim,

Ran into that site a while back while visiting an audiophile discussion group. Ahhh...the gullibility of the human mind.

My vote for best speaker cable is good 'ole Romex. I use it to route high-power audio around the house and use a #10 pull out to the pool. Cheap, plentiful, and still allows the speaker to take advantage of an amp's high damping factor.

Paul, W9AC

----- Original Message -----
From: "Jim Garland" <4cx250b at muohio.edu>
To: <boatanchors at theporch.com>
Sent: Friday, May 25, 2012 10:15 PM
Subject: Re: [BoatAnchors] Abotu Bi-Wiring

> Here's a website for all kinds of "high end" audio stupidity, e.g.,
> speaker
> cables that damp out damaging microvibrations that ruin audio fidelity:
> http://www.lessloss.com/
> Jim
>
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From wb3fau55 at neo.rr.com Sat May 26 09:59:29 2012
From: wb3fau55 at neo.rr.com (wb3fau55 at neo.rr.com)
Date: Sat, 26 May 2012 9:59:29 -0400
Subject: [BoatAnchors] speaker wire
In-Reply-To: <25480382.1337970718015.JavaMail.root@mswamui-cedar.atl.sa.earthlink.net>
Message-ID: <20120526135929.479ZZ.86690.root@cdptpa-web09-z01>

---- spr at earthlink.net wrote:
> Folks,
>
> First, I design porfesinal audio products for a living. My home rig is *not* bi-wired, but of the silly stuff you originally mentioned, this is potentially the least silly.
>
> The design premises are tow:
>
> 1) The loudspeakers have highly variable and sometimes non-linear input impedances. This is true.
>
> 2) The power amp's output impedance is smaller than the round-trip resistance of the speaker cables.
>
> Let's look at the second one.
>
> I) Amp output impedance; this will be a percentage of the load resistance,

typically about 3% or less of it at below, say, 1 kHz. 3% of 4 ohms is 0.12 ohms. At high frequencies, the amp's Zout increases.
>
> II) Cable resistance: I will suppose that the speaker wires go around the edge of the listening room, and so might be 30 feet long. That makes the round trip 60 feet. IF you use 18 gauge lamp cord (6.4 ohms per 1000 feet) the round trip resistance is 0.19 ohms If you use 12 gauge (1.6 ohms per 1000 feet) wire--nothing fancy, just plain thick wire, as I do, the round trip resistance is 0.05 ohms.
>
> So, if you use thick wire, I doubt the bi-wiring will do any good at all. If you use #18, it at least could make a small difference. IMHO, high quality speaker wire should always be so thick that its resistance is not a problem, making bi-wiring not useful.
>
> Although I doubt bi-wiring is of much use, it's a *lot* less bogus than, say, very fancy speaker wire that has an arrow pointing towards the speakers (this is AC, remember?) and that is supposed to need two weeks' break-in before its full benefit is achieved. I didn't make up those last two, people buy very expensive wire that is described by its manufacturers in just this way. Oh, and they also sell fancy line cords, too...for USD 700!!!
>
> The main reason that speakers have separate HF and LF terminals is to permit bi-amplification, which can have benefits: no IM distortion in the amps is possible between bass and mid- or high-frequency signals, since the electronic crossover keeps bass outa the HF amp.
>
> Peace,
>
> Scott Robinson
>
>
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

you got it all wrong- you need to get welding cable! hi!

From wb3fau55 at neo.rr.com Sat May 26 10:03:04 2012
From: wb3fau55 at neo.rr.com (wb3fau55 at neo.rr.com)
Date: Sat, 26 May 2012 10:03:04 -0400
Subject: [BoatAnchors] Abotu Bi-Wiring [flaytrap]
In-Reply-To: <001301cd3adc$1a1a9be0$a69e480c@KB6NAX>
Message-ID: <20120526140304.75C0X.86701.root@cdptpa-web09-z01>

hey Arden, is that any different? [aka- 'phool term] for flytrap?
good analogy though...
---- Arden Allen <gumbear at pacbell.net> wrote:

> Yup, that's right. It's a simple case of trivial pursuit. The reason there
> is so much nonsense in audio marketing is because of the democratization of
> enterprise via the internet. Anybody can become a tycoon selling stuff and
> all that's needed is an internet connection, a vivid imagination, and the
> conscience of a venus flaytrap.
>
> Arden
>
>
> Folks,
>
> First, I design porfesinal audio products for a living. My home rig is *not*
> bi-wired, but of the silly stuff you originally mentioned, this is
> potentially the least silly.
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> The design premises are tow:
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> impedances. This is true.
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> resistance of the speaker cables.
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> Let's look at the second one.
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> I) Amp output impedance; this will be a percentage of the load resistance,
> typically about 3% or less of it at below, say, 1 kHz. 3% of 4 ohms is 0.12
> ohms. At high frequencies, the amp's Zout increases.
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> edge of the listening room, and so might be 30 feet long. That makes the
> round trip 60 feet. IF you use 18 gauge lamp cord (6.4 ohms per 1000 feet)
> the round trip resistance is 0.19 ohms If you use 12 gauge (1.6 ohms per
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> you use #18, it at least could make a small difference. IMHO, high quality
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> before its full benefit is achieved. I didn't make up those last two, people
> buy very expensive wire that is described by its manufacturers in just this
> way. Oh, and they also sell fancy line cords, too...for USD 700!!!
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> The main reason that speakers have separate HF and LF terminals is to permit
> bi-amplification, which can have benefits: no IM distortion in the amps is
> possible between bass and mid- or high-frequency signals, since the
> electronic crossover keeps bass outa the HF amp.
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> Peace,
>
> Scott Robinson
> ....
>
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From gumbear at pacbell.net Sat May 26 20:50:21 2012
From: gumbear at pacbell.net (Arden Allen)
Date: Sat, 26 May 2012 17:50:21 -0700
Subject: [BoatAnchors] Abotu Bi-Wiring
References: <25480382.1337970718015.JavaMail.root@mswamui-cedar.atl.sa.earthlink.net><001301cd3adc$1a1a9be0$a69e480c@KB6NAX>
<20B2B2F6CCB6496D99D6337DEBA588E2@JimsOffice>
Message-ID: <003a01cd3ba2$b70ac710$5c9d480c@KB6NAX>

Here's the last laugh on the subject of speaker cables. Improving the resistive loss factor by increasing the gauge of the wire might get you some improvement. For example going from 0.2 ohms to 0.05 ohms (Scott's numbers) is a 400% reduction in resistance for the wire but only a 2.5% reduction in circuit resistance for an eight ohm speaker who's voice coil is typically 6 ohms. The truth is as usual a well hidden secret.

Arden

Here's a website for all kinds of "high end" audio stupidity, e.g., speaker cables that damp out damaging microvibrations that ruin audio fidelity:
http://www.lessloss.com/
Jim

____
BoatAnchors mailing list
BoatAnchors at theporch.com
https://minime.theporch.com/mailman/listinfo/boatanchors

From gumbear at pacbell.net Sat May 26 20:50:21 2012
From: gumbear at pacbell.net (Arden Allen)
Date: Sat, 26 May 2012 17:50:21 -0700
Subject: [BoatAnchors] Abotu Bi-Wiring
References: <25480382.1337970718015.JavaMail.root@mswamui-cedar.atl.sa.earthlink.net><001301cd3adc$1a1a9be0$a69e480c@KB6NAX>
<20B2B2F6CCB6496D99D6337DEBA588E2@JimsOffice>
Message-ID: <003a01cd3ba2$b70ac710$5c9d480c@KB6NAX>

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Jim

____
BoatAnchors mailing list
BoatAnchors at theporch.com
https://minime.theporch.com/mailman/listinfo/boatanchors

From wb3fau55 at neo.rr.com Sun May 27 09:10:46 2012
From: wb3fau55 at neo.rr.com (wb3fau55 at neo.rr.com)
Date: Sun, 27 May 2012 9:10:46 -0400
Subject: [BoatAnchors] National NC-300
Message-ID: <20120527131046.8ROVM.111542.root@cdptpa-web09-z01>

repair advice needed on my NC-300. Cal adjust does not maintain setting. When I make the adjustment, and return the
set freq. the setting keeps moving. Does not maintain calibration.   Dial cord does not seem to be slipping. Any
thoughts or ideas?   Russ

From jp at cs.unc.edu Sun May 27 11:50:56 2012
From: jp at cs.unc.edu (john poulton)
Date: Sun, 27 May 2012 11:50:56 -0400
Subject: [BoatAnchors] New Home Needed for Unusual H/B Solid State Rig

Message-ID: <A6374C31-644E-4588-B5C8-3CCEE1DBC0E1@cs.unc.edu>

I have a unique home-brew solid state rig that needs a new home. It's a 1KW linear amplifier that I built in the late 70's as part of my Physics PhD work in magnetic resonance spectroscopy. This unit is broadband from 2-30 MHz and uses push-pull bipolar RF transistors that were made by the now-defunct Communication Transistor Corp (there are modern Motorola equivalents).

The main amp contains 5 300W modules, along with power splitter/combiners. One module is the driver, the remaining 4 the output stage. There is another 50W pre-amp that completes the chain. Power is from a set of 6 identical 28V linear power supplies, nicely rack-mounted with analog ammeters. The whole thing is mounted in an open-frame rack.

I used this amplifier along with an unusual sideband exciter that generated long trains of pulses with arbitrary phase shifts and frequency offsets to do spectroscopy in solids.. long story that I'll share if interested. The amplifiers were built along the lines of some Application Notes from CTC. The amps worked very well indeed, and were still working when pulled from service about 10 years ago.

As mentioned, they're rated for continuous service, so could be used either singly, or all together as the back end amplifier for a normal SSB low-power rig, without the need for any tuning (other than antenna matching, of course).

I've put together a few photos at:

http://www.jptronics.org/pix/ssamp/index.html

Included in the package: all the amps and power supplies, and the rack. This thing is big and bulky, so pick-up only in Chapel Hill, NC. With no idea what it might be worth to a prospective buyer, let's say $200, but the price is negotiable, particularly for a good story. Shack tour included on pickup :)

73, John K4OZY

From kd5byb at kd5byb.net Sun May 27 15:08:27 2012
From: kd5byb at kd5byb.net (Ben Hall)
Date: Sun, 27 May 2012 14:08:27 -0500
Subject: [BoatAnchors] Further RBA/RBB/RBC adventures...
Message-ID: <4FC27BAB.6080609@kd5byb.net>

Afternoon all,

Some may recall my inquiries regarding my RBA/RBB/RBC power supply that had the filter choke that had a leak and was drained of all its oil.

The consensus was that I shouldn't worry about it, especially if it showed no leakage to ground.

Over the past weeks I'd been fixing up the power supply - removing a threaded pipe fitting that had been used instead of the circular mil connectors and filling that hole, epoxying together a broken ceramic feed-thru insulator, removing the wiring modifications, and procuring the proper circular-mil connectors.

Today the power supply came in from the garage and onto the bench. Hooked it up to my resistive power supply load, a couple of meters, and powered it up.

All went very smoothly - it works fine even when loaded up. +107 VDC on the +105 line, 200 VDC when loaded just over 50 mA.

Next step is to replace the missing power connector on the RBA and get it onto the bench for testing.

thanks much and 73,
ben, kd5byb

From n7rk at cox.net Sun May 27 17:43:08 2012
From: n7rk at cox.net (David Hollander)
Date: Sun, 27 May 2012 14:43:08 -0700
Subject: [BoatAnchors] New Home Needed for Unusual H/B Solid State Rig
In-Reply-To: <A6374C31-644E-4588-B5C8-3CCEE1DBC0E1@cs.unc.edu>
References: <A6374C31-644E-4588-B5C8-3CCEE1DBC0E1@cs.unc.edu>
Message-ID: <4FC29FEC.3050908@cox.net>

Hi John - Motorola Semiconductor who made RF power transistors like CTC is also now defunct for over 13 years so you need to find another source. I worked in the RF Power transistor group for 5 years in the 70's.

Dave N7RK
A former Motorola Semiconductor employee for 27 years

--
****
Dave N7RK   Boatanchors Home Page: http://n7rk.com
Phoenix, Arizona   *DXCC Honor Roll*   *WAZ#22 - 75 Meter SSB*

ex-XE2/N7RK, N7RK/ZB2, VK2ERK, ZM0AJN, WB6NRK, WN6IWX

Boatanchor and Antique Radio Collector

From kd5byb at kd5byb.net Sun May 27 21:33:35 2012
From: kd5byb at kd5byb.net (Ben Hall)
Date: Sun, 27 May 2012 20:33:35 -0500
Subject: [BoatAnchors] RBA power supply cable
In-Reply-To: <4FC27BAB.6080609@kd5byb.net>
References: <4FC27BAB.6080609@kd5byb.net>
Message-ID: <4FC2D5EF.4060008@kd5byb.net>

Good evening all,

Didn't feel like attacking the power connector on the RBA, so I decided to tackle the power supply to receiver cable conundrum.

The original Navy cables are an over-braided affair as shown below. I started down the path of duplicating this design, but having only clamp-type backshells with the sealed Navy-type being no longer available, I knew I couldn't get all the way.

Here's an original, which lives safely under lock-n-key at a secluded Arkansas location:
<http://www.kd5byb.net/RBA/rba-cable1.jpg>

So I thought to myself - hey, I've got some left-over flex conduit from when I installed our new water heater. While not the same as an original Navy overbraid cable, maybe it's close enough. Or, maybe if the Navy knew about flex conduit back during the war, they would have used it? Who knows!

So here's my field-expedient, built with crap-I-had-laying-in-the-garage substitute:

<http://www.kd5byb.net/RBA/rba-cable2.jpg>

thanks much and 73,
ben, kd5byb

From ebjr37 at charter.net Sun May 27 22:46:36 2012
From: ebjr37 at charter.net (Sandy)
Date: Sun, 27 May 2012 21:46:36 -0500
Subject: [BoatAnchors] Off topic?..Looking for filters for FT-990
Message-ID: <F69A43A31C0845ECA048CD8BAD2DCDDD@SandysLaptop>

(Off topic)

Looking for a 2.0 Khz SSB filter and a 250 Hz. filter for the YAESU FT-990
Transceiver.   Any out there?

73,

Sandy W5TVW

From spr at earthlink.net Sun May 27 23:38:56 2012
From: spr at earthlink.net (Scott Robinson)
Date: Sun, 27 May 2012 20:38:56 -0700
Subject: [BoatAnchors] RBA power supply cable
In-Reply-To: <4FC2D5EF.4060008@kd5byb.net>
References: <4FC27BAB.6080609@kd5byb.net> <4FC2D5EF.4060008@kd5byb.net>
Message-ID: <4FC2F350.2060002@earthlink.net>

Hi Ben,

I *like* your field expedient substitute!

/scott

On 5/27/12 6:33 PM, Ben Hall wrote:
> Good evening all,
>
> Didn't feel like attacking the power connector on the RBA, so I decided
> to tackle the power supply to receiver cable conundrum.
>
> The original Navy cables are an over-braided affair as shown below. I
> started down the path of duplicating this design, but having only
> clamp-type backshells with the sealed Navy-type being no longer
> available, I knew I couldn't get all the way.
>
> Here's an original, which lives safely under lock-n-key at a secluded
> Arkansas location:
> <http://www.kd5byb.net/RBA/rba-cable1.jpg>
>
> So I thought to myself - hey, I've got some left-over flex conduit from
> when I installed our new water heater. While not the same as an original

```
> Navy overbraid cable, maybe it's close enough. Or, maybe if the Navy
> knew about flex conduit back during the war, they would have used it?
> Who knows!
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> So here's my field-expedient, built with crap-I-had-laying-in-the-garage
> substitute:
>
> <http://www.kd5byb.net/RBA/rba-cable2.jpg>
>
> thanks much and 73,
> ben, kd5byb
> _______________________________________________
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors
>


From arc5 at ix.netcom.com  Sun May 27 23:56:04 2012
From: arc5 at ix.netcom.com (David Stinson)
Date: Sun, 27 May 2012 22:56:04 -0500 (GMT-05:00)
Subject: [BoatAnchors] RBA power supply cable
Message-ID: <4889074.1338177364402.JavaMail.root@wamui-june.atl.sa.earthlink.net>

Mike Hanz put me on to using plumbing hose for sinks and
water heaters that has exactly that braided covering.
Mike: I forgot where you got yours?
Downside: it's expensive and you need a grinding
cut-off wheel to cut it without making a mess,
but it sure looks excellent once you're done.
Very close to the original cable.


From bluegrassdakine at hotmail.com  Mon May 28 03:56:45 2012
From: bluegrassdakine at hotmail.com (Raymond Cote)
Date: Sun, 27 May 2012 21:56:45 -1000
Subject: [BoatAnchors] history and evolution of the Collins gear
Message-ID: <BAY152-W543BC94D07B3AB820F4102A9040@phx.gbl>


The mil list has been talkin lately about the R388 and 51J3 equipment.  This
brings to mind the thought of the evolution of these great receivers.   When was
the first designe, what was the first one?  51j1???   Was there units before the J
series?  What are the capabilities of the various lineage?  from the 51H, 51J, 51S
R388, R389, R390 390A 391 and so forth?   Does anyone have all this in writing or
does it have to be compiled, perhaps on these lists?

thanks all
```

From WA1KBQ at aol.com Mon May 28 08:01:26 2012
From: WA1KBQ at aol.com (WA1KBQ at aol.com)
Date: Mon, 28 May 2012 08:01:26 -0400 (EDT)
Subject: [BoatAnchors] history and evolution of the Collins gear
Message-ID: <c3a0.12682b1b.3cf4c316@aol.com>

The 75A was first wasn't it?

Greg

In a message dated 5/28/2012 3:57:17 A.M. Eastern Daylight Time,
bluegrassdakine at hotmail.com writes:

The mil list has been talkin lately about the R388 and 51J3 equipment. This brings to mind the thought of the evolution of these great receivers. When was the first designe, what was the first one? 51j1??? Was there units before the J series? What are the capabilities of the various lineage? from the 51H, 51J, 51S R388, R389, R390 390A 391 and so forth? Does anyone have all this in writing or does it have to be compiled, perhaps on these lists?

thanks all

____
BoatAnchors mailing list
BoatAnchors at theporch.com
https://minime.theporch.com/mailman/listinfo/boatanchors

From mike_25-z at aafradio.org Mon May 28 08:15:38 2012
From: mike_25-z at aafradio.org (aafradio)
Date: Mon, 28 May 2012 08:15:38 -0400
Subject: [BoatAnchors] RBA power supply cable
In-Reply-To: <4FC2F350.2060002@earthlink.net>
References: <4FC27BAB.6080609@kd5byb.net> <4FC2D5EF.4060008@kd5byb.net>
     <4FC2F350.2060002@earthlink.net>
Message-ID: <4FC36C6A.3030203@aafradio.org>

That's a good approach, Ben. As AB5S mentioned, I have been using other alternatives for the same purpose. The braided stainless washing machine hose from Home Depot or Lowes also works well as a substitute for the braided cables - see http://aafradio.org/flightdeck/arc5-1.jpg for an example in my AN/ARC-5 set. The Navy also pioneered the use of armored aluminum flex cables back in the 1930s, but because of salt spray, they used black rubber, and later on, black vinyl cladding to reduce corrosion problems. The big box stores also carry vinyl clad BX flex cable that can be used, but you'll have to drop by the NAPA store and get a spray can of black vinyl dye to make it look like original Navy equipment. There are a couple of different general types of this flex cable - two with a steel or aluminum core and different number of "ribs" per inch, and another one that is entirely vinyl. The original Navy cable used a high number of ribs per inch for more flexibility, so it looks like smooth cable unless you are observant. It may be useful to find one of the high rib count types if you want it to look original. All the total vinyl cable I've seen seems to have fine ribs, but then you do lose the shielding aspect. The ferrules on your original example are child's play with a lathe, and can be attached to either types of cable with epoxy. I made a tool to crimp them onto the cable like the originals, but epoxy isn't bad if you don't manhandle the cable too much afterwards. You can either machine off the clamping part of the cable clamp to retain the ferrules, or make new ones if you have the ability to knurl and thread aluminum. They aren't difficult to make with the right tools - one example that I fabricated for a DU loop is shown at DU-2_coupling_cable_parts.JPG

73,
Mike KC4TOS

> On 5/27/12 6:33 PM, Ben Hall wrote:
>> The original Navy cables are an over-braided affair as shown below. I started down the path of duplicating this design, but having only clamp-type backshells with the sealed Navy-type being no longer available, I knew I couldn't get all the way.
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>>
>> So I thought to myself - hey, I've got some left-over flex conduit from when I installed our new water heater. While not the same as an original Navy overbraid cable, maybe it's close enough. Or, maybe if the Navy knew about flex conduit back during the war, they would have used it? Who knows!
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>> So here's my field-expedient, built with crap-I-had-laying-in-the-garage substitute:
>>
>> <http://www.kd5byb.net/RBA/rba-cable2.jpg>

From arc5 at ix.netcom.com Mon May 28 08:23:56 2012
From: arc5 at ix.netcom.com (David Stinson)

Date: Mon, 28 May 2012 07:23:56 -0500
Subject: [BoatAnchors] Dial Cord Sub: Inexpensive, Available
Message-ID: <D99AF496DEA647A989206D2CC31D2247@DaddyPC>

During a recent restoration of an NC-100, I needed
some dial cord. I went to WalMart and found this
in the "crafts" section where the beads kids string-together
for braclets and such are stocked:

http://home.netcom.com/~arc5/dialcord.jpg

The black stuff looks just like dial cord, is strong
and the right diameter. It worked excellent.

73 Dave AB5S

From johnmb at nc.rr.com Mon May 28 08:36:58 2012
From: johnmb at nc.rr.com (john)
Date: Mon, 28 May 2012 08:36:58 -0400
Subject: [BoatAnchors] RBA power supply cable
In-Reply-To: <4889074.1338177364402.JavaMail.root@wamui-june.atl.sa.earthlink.net>
References: <4889074.1338177364402.JavaMail.root@wamui-june.atl.sa.earthlink.net>
Message-ID: <6.2.1.2.2.20120528083435.03b79d20@pop-server.nc.rr.com>

At 11:56 PM 5/27/2012, David Stinson wrote:
>Mike Hanz put me on to using plumbing hose for sinks and
>water heaters that has exactly that braided covering.
>Mike: I forgot where you got yours?
>Downside: it's expensive and you need a grinding
>cut-off wheel to cut it without making a mess,
>but it sure looks excellent once you're done.
>Very close to the original cable.

You can get that braided hose at Lowes or other BB stores, even if you
have to cut the fittings off it's still reasonable. A cut off wheel is
nice, but a sharp chisel backed up by a metal plate will cut it with one
whack too.

Hot rod shops sell this by the foot too.

John K5MO

PS: Very nice field expedient Ben!

From johnmb at nc.rr.com Mon May 28 08:37:54 2012
From: johnmb at nc.rr.com (john)
Date: Mon, 28 May 2012 08:37:54 -0400
Subject: [BoatAnchors] Dial Cord Sub: Inexpensive, Available
In-Reply-To: <D99AF496DEA647A989206D2CC31D2247@DaddyPC>
References: <D99AF496DEA647A989206D2CC31D2247@DaddyPC>
Message-ID: <6.2.1.2.2.20120528083730.03bc03d0@pop-server.nc.rr.com>

The fishing dept has a braided leader that's also nice for this purpose !

John

At 08:23 AM 5/28/2012, David Stinson wrote:
>During a recent restoration of an NC-100, I needed some dial cord. I went
>to WalMart and found this in the "crafts" section where the beads kids
>string-together for braclets and such are stocked:
>
>http://home.netcom.com/~arc5/dialcord.jpg
>
>The black stuff looks just like dial cord, is strong
>and the right diameter. It worked excellent.
>
>73 Dave AB5S
>
>____
>BoatAnchors mailing list
>BoatAnchors at theporch.com
>https://minime.theporch.com/mailman/listinfo/boatanchors

From mike_25-z at aafradio.org Mon May 28 08:55:40 2012
From: mike_25-z at aafradio.org (aafradio)
Date: Mon, 28 May 2012 08:55:40 -0400
Subject: [BoatAnchors] RBA power supply cable
In-Reply-To: <4FC36C6A.3030203@aafradio.org>
References: <4FC36C6A.3030203@aafradio.org>
Message-ID: <4FC375CC.4070503@aafradio.org>

I wrote:

You can either machine off the clamping part
of the cable clamp to retain the ferrules, or make new ones if you have
the ability to knurl and thread aluminum. They aren't difficult to make
with the right tools - one example that I fabricated for a DU loop is

shown at DU-2_coupling_cable_parts.JPG

That last link should be http://aafradio.org/flightdeck/
DU-2_coupling_cable_parts.JPG

From smithab11 at comcast.net Mon May 28 08:47:41 2012
From: smithab11 at comcast.net (B Smith)
Date: Mon, 28 May 2012 08:47:41 -0400
Subject: [BoatAnchors] RBA power supply cable
In-Reply-To: <6.2.1.2.2.20120528083435.03b79d20@pop-server.nc.rr.com>
References: <4889074.1338177364402.JavaMail.root@wamui-june.atl.sa.earthlink.net>
     <6.2.1.2.2.20120528083435.03b79d20@pop-server.nc.rr.com>
Message-ID: <9BE5BB3538214D0EB28ACE60F0D1F19E@Dell560>

AES also stocks an excellent dial cable, described below

"Part Number: S-M75
"No stretch black cord made of nylon braid over a fiberglass core. Use
with tension springs (listed below). Standard thin, 0.028 diameter.
Sold by the foot . . ."

breck k4che
Dover, Delaware, ain't nutten   in Dover except
A NASCAR track, chickens, and hams that can't solder.

From: "john" <johnmb at nc.rr.com>
Sent: Monday, May 28, 2012 8:36 AM
To: "David Stinson" <arc5 at ix.netcom.com>; <boatanchors at theporch.com>
Subject: Re: [BoatAnchors] RBA power supply cable

At 11:56 PM 5/27/2012, David Stinson wrote:
>Mike Hanz put me on to using plumbing hose for sinks and
>water heaters that has exactly that braided covering.
>Mike: I forgot where you got yours?
>Downside: it's expensive and you need a grinding
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>Very close to the original cable.

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nice, but a sharp chisel backed up by a metal plate will cut it with
one

whack too.

Hot rod shops sell this by the foot too.

John K5MO

PS: Very nice field expedient Ben!

____
BoatAnchors mailing list
BoatAnchors at theporch.com
https://minime.theporch.com/mailman/listinfo/boatanchors

From wb3fau55 at neo.rr.com Mon May 28 11:52:15 2012
From: wb3fau55 at neo.rr.com (wb3fau55 at neo.rr.com)
Date: Mon, 28 May 2012 11:52:15 -0400
Subject: [BoatAnchors] NC-300
Message-ID: <20120528155215.FEDP6.138679.root@cdptpa-web09-z01>

i took another good look at it and solved it. 2 screws holding the dial drive cord frame in place were
very loose and almost fell out! Snug them boys back in place and now working FB.

From bluegrassdakine at hotmail.com Mon May 28 23:44:23 2012
From: bluegrassdakine at hotmail.com (Raymond Cote)
Date: Mon, 28 May 2012 17:44:23 -1000
Subject: [BoatAnchors] [Milsurplus] history and evolution of the Collins
     gear
In-Reply-To: <1080.12.6.201.237.1338209972.squirrel@popaccts.quikus.com>
References: <BAY152-W543BC94D07B3AB820F4102A9040@phx.gbl>,
     <1080.12.6.201.237.1338209972.squirrel@popaccts.quikus.com>
Message-ID: <BAY152-W43EBE8139D9BCF659C803EA9050@phx.gbl>

Right, there is a Collins group. i will post over there if I can find it
thanks
> There is a Collins Collectors Group or Site. The'd likely know.
>

> >
> > The mil list has been talkin lately about the R388 and 51J3 equipment.
> > This brings to mind the thought of the evolution of these great receivers.
> >   When was the first design, what was the first one? 51j1???   Was there
> > units before the J series? What are the capabilities of the various

> > lineage? from the 51H, 51J, 51S R388, R389, R390 390A 391 and so forth?
> > Does anyone have all this in writing or does it have to be compiled,
> > perhaps on these lists?
> >
>

From jay at kk5im.com Tue May 29 18:10:41 2012
From: jay at kk5im.com (Jay H. Miller)
Date: Tue, 29 May 2012 17:10:41 -0500
Subject: [BoatAnchors] history and evolution of the Collins gear
In-Reply-To: <BAY152-W543BC94D07B3AB820F4102A9040@phx.gbl>
References: <BAY152-W543BC94D07B3AB820F4102A9040@phx.gbl>
Message-ID: <p06110418cbeaf4887aac@[192.168.1.104]>

The post-war Collins receivers were:

75A	1946 (very few made)
75A-1	1947
75A-2	1950
75A-3	1952
75A-4	1955
51J-1	1949
51J-2	1950
51J-3	(R-388) 1955
51J-4	1957
51S-1	1959

R-389 (low frequency rig) probably 1956 but Don Reaves, W5OR will know for sure.

R-390   1956 (probably the year of prototype as it was carried on the July 1956 polar SSB test flight)
R-390A 1958 is my best guess

Interestingly that 51J-4 receivers were sold, although in small numbers, through the end of the 1960s.

To my knowledge, Collins did not manufacture a communications receiver for the amateur/military/commercial market until the 75A. Prior to that it was all transmitters with the notable exception of the TCS transmitter/receiver during World War II. An item that really needs some research and a publishing effort.

Please note..... dates are not an exact science.
Very, very few official Collins documents exist
detailing production numbers and start-stop
dates. Therefore EXACTNESS is probably not
possible. SPECULATION is easy. RESEARCH and
DETECTIVE work yield an EDUCATED ESTIMATE!

73

*********** jay at kk5im.com ***********
Jay H. Miller, KK5IM   Dallas, Texas
NRA * ARRL * DXCC * S.A.S.S. #34,692
32? AASR *   MVPA #25,180
Website: http://www.kk5im.com
***** Proud to be 100% Macintosh since 1984! *****

From w7qho at aol.com Tue May 29 18:42:08 2012
From: w7qho at aol.com (mac)
Date: Tue, 29 May 2012 15:42:08 -0700
Subject: [BoatAnchors] history and evolution of the Collins gear
In-Reply-To: <p06110418cbeaf4887aac@[192.168.1.104]>
References: <BAY152-W543BC94D07B3AB820F4102A9040@phx.gbl>
     <p06110418cbeaf4887aac@[192.168.1.104]>
Message-ID: <09D76560-0149-49F1-9EB4-929F29C68066@aol.com>

Owned and old Collins once that had a 54J (no number) nameplate on
it. Same thing as a 51J-1?

Dennis D. W7QHO
Glendale, CA

****
On May 29, 2012, at 3:10 PM, Jay H. Miller wrote:

> The post-war Collins receivers were:
>
> 75A   1946 (very few made)
> 75A-1 1947
> 75A-2 1950
> 75A-3 1952
> 75A-4 1955
> 51J-1 1949
> 51J-2 1950
> 51J-3 (R-388) 1955
> 51J-4 1957
> 51S-1 1959

>
> R-389 (low frequency rig) probably 1956 but Don Reaves, W5OR will
> know for sure.
>
> R-390   1956 (probably the year of prototype as it was carried on
> the July 1956 polar SSB test flight)
> R-390A 1958 is my best guess
>
> Interestingly that 51J-4 receivers were sold, although in small
> numbers, through the end of the 1960s.
>
> To my knowledge, Collins did not manufacture a communications
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> Prior to that it was all transmitters with the notable exception of
> the TCS transmitter/receiver during World War II. An item that
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>
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> start-stop dates. Therefore EXACTNESS is probably not possible.
> SPECULATION is easy. RESEARCH and DETECTIVE work yield an EDUCATED
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>
> 73
>
>
>   *********** jay at kk5im.com ***********
>   Jay H. Miller, KK5IM   Dallas, Texas
>   NRA * ARRL * DXCC * S.A.S.S. #34,692
>   32? AASR *   MVPA #25,180
>   Website: http://www.kk5im.com
>   ***** Proud to be 100% Macintosh since 1984! *****
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From spr at earthlink.net Tue May 29 20:00:18 2012
From: spr at earthlink.net (spr at earthlink.net)
Date: Tue, 29 May 2012 17:00:18 -0700 (GMT-07:00)
Subject: [BoatAnchors] history and evolution of the Collins gear
Message-ID: <4557745.1338336019061.JavaMail.root@mswamui-swiss.atl.sa.earthlink.net>

Hi Jay,

I think the R-390and -390A years are different from what you describe.

R-390 1949-51 or so
R-390A 1951 or -52 to 1968 continuous production, final batch 1984.

My R-390A is Stewart-Warner, made, as I recall, in 1953.

I have the Collins engineering report on mods to the -390 to make it an R-390A, and I can look at its date when I'm home.

Regards,

Scott

-----Original Message-----
>From: "Jay H. Miller" <jay at kk5im.com>
>Sent: May 29, 2012 3:10 PM
>To: boatanchors at theporch.com
>Subject: Re: [BoatAnchors] history and evolution of the Collins gear
>
>The post-war Collins receivers were:
>
>75A   1946 (very few made)
>75A-1 1947
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>75A-3 1952
>75A-4 1955
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>51J-4 1957
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>dates. Therefore EXACTNESS is probably not
>possible. SPECULATION is easy. RESEARCH and
>DETECTIVE work yield an EDUCATED ESTIMATE!
>

From k4pf at juno.com Tue May 29 19:59:17 2012
From: k4pf at juno.com (k4pf at juno.com)
Date: Tue, 29 May 2012 23:59:17 GMT
Subject: [BoatAnchors] history and evolution of the Collins gear
Message-ID: <20120529.195917.22327.0@webmail12.vgs.untd.com>

> "Jay H. Miller" <jay at kk5im.com> wrote
<snip>
> To my knowledge, Collins did not manufacture a communications
receiver for the amateur/military/commercial market until the 75A.
<snip>
(Jay also mentioned the Collins TCS transmitter and receiver).

Hi, Jay

Don't forget the Collins ARC-2 HF AM transceiver of about 1944.
It was an autotuned aircraft transceiver, with TX and RX freq both controlled by
the same Permeability Tuned Oscillator.

See 73 magazine, Oct 1962, for photos, block diagrams and conversion info.

73,
Ed Knobloch

From jp at cs.unc.edu Wed May 30 16:24:15 2012
From: jp at cs.unc.edu (john poulton)
Date: Wed, 30 May 2012 16:24:15 -0400
Subject: [BoatAnchors] FS: Very Rare Rohde & Schwartz AM Transmitter
Message-ID: <550D62DF-15B7-4A4A-8140-CF6F33FB4A9A@cs.unc.edu>

For sale is a Rohde & Schwartz SK 030/41 transmitter. I bought this, and its twin, from Paul Kluwe about 6 years ago, and I'm making no progress getting it going (for lack of time and space), so thought it might be time to pass this along to someone who has the energy to get this beautiful thing on the air.

This transmitter and its twin were delivered to the FAA back in the 50's for evaluation. Evidently they didn't make the grade, and next ended up in private hands. I'm the 4th owner, counting the FAA. I owned both transmitters for a while, but sold the other one to a fellow ham who collects all sorts of exotic European radios. This one has all-English control markings; the other was all Deutsch.

The transmitter is a single-rack rig, rated at 400W on AM. It features a TB 3/750 PA (think 3-500), and a pair of QB 3/300 modulators (I believe these are exactly 4-125's). Its manual says 1.6-6Mc, but I can't see any serious impediment to getting it onto 40m. I have collected some extra tubes over the years, and they can go with the transmitter. I have an original manual, mostly in English, that is also included.

The rig features very unusual and interesting construction. Logically (it IS German, after all), the heavy stuff (transformers) are at the bottom and the light stuff (tubes) at the top. It consists of 6 drawer/modules that plug into connectors in the cabinet. This makes the rig very easy to transport and to work on. As in many German tube rigs, this one has a multimeter included that allows you to monitor various tube voltages while the unit is in operation.

The only electrical issue I know of: Paul told me one of the low-voltage transformers was fried, and provided a replacement, which of course goes with the transmitter. Or, you could have Gary rewind the original one for you..

You can see pictures of the EK 030/41 at:

http://www.jptronics.org/pix/sk030/

Term: $750, pickup in Chapel Hill, NC (it's 'WAY too heavy to ship!). There are other delivery options possible, particularly in the next month or so, along the East coast, so please ask if you're interested in this transmitter!

73, John K4OZY

From jp at cs.unc.edu Wed May 30 16:51:52 2012
From: jp at cs.unc.edu (john poulton)
Date: Wed, 30 May 2012 16:51:52 -0400
Subject: [BoatAnchors] FS: Central Electronics 100V
Message-ID: <ED05071D-79B3-443B-A192-4119D7BDC59D@cs.unc.edu>

I have a very nice Central Electronics 100V that needs a new home. All part of some shack clearing because of shifting interests, I guess, but this transmitter is in very nice shape, and it deserves a good home where it'll get used!

Cosmetically, I'd say the rig is an 8/10. The only thing that keeps it from being nearly perfect is a paint blemish just to the left of the tuning dial. It obscures one of the markings for the meter switch. The chassis is dirty but it doesn't appear to have the corrosion problems that seem common with these transmitters. It should be pretty easy to clean up. The tag says this transmitter's s/n is E 140.

I've posted photos at:

http://www.jptronics.org/pix/ce100v/

Terms: $700. I will ship the radio (you pay shipping), if absolutely necessary, but pickup is safer for the radio and greatly preferred. There may be delivery options available, too, as I'll be making some boatanchor-related trips over the next few months on the East coast--please ask about that if you're interested in this very nice transmitter. One week only, then it goes to EBAY!

73, John K4OZY

From wwatson5 at sbcglobal.net Wed May 30 18:13:36 2012

From: wwatson5 at sbcglobal.net (William Watson)
Date: Wed, 30 May 2012 15:13:36 -0700 (PDT)
Subject: [BoatAnchors] Collins 51S-1 Receiver
Message-ID: <1338416016.92025.YahooMailNeo@web81402.mail.mud.yahoo.com>

FYI my Collins 51S-1 is currently on the big list with low bids.
?
Joe

From wb3fau55 at neo.rr.com Wed May 30 18:45:23 2012
From: wb3fau55 at neo.rr.com (wb3fau55 at neo.rr.com)
Date: Wed, 30 May 2012 18:45:23 -0400
Subject: [BoatAnchors] history and evolution of the Collins gear R390 vs R390A
In-Reply-To: <20120529.195917.22327.0@webmail12.vgs.untd.com>
Message-ID: <20120530224523.M3HXV.184144.root@cdptpa-web09-z01>

there is no way to upgrade a 390 to 390A. the only thing similar in these are the front panel...
---- "k4pf at juno.com" <k4pf at juno.com> wrote:
>
> > "Jay H. Miller" <jay at kk5im.com> wrote
> <snip>
> > To my knowledge, Collins did not manufacture a communications
> receiver for the amateur/military/commercial market until the 75A.
> <snip>
> (Jay also mentioned the Collins TCS transmitter and receiver).
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> Hi, Jay
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> Don't forget the Collins ARC-2 HF AM transceiver of about 1944.
> It was an autotuned aircraft transceiver, with TX and RX freq both controlled by the same Permeability Tuned Oscillator.
>
> See 73 magazine, Oct 1962, for photos, block diagrams and conversion info.
>
> 73,
> Ed Knobloch
>
>
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From hbreuer at debitel.net Wed May 30 18:58:52 2012

From: hbreuer at debitel.net (Heinz Breuer)
Date: Thu, 31 May 2012 00:58:52 +0200
Subject: [BoatAnchors] FS: Very Rare Rohde & Schwartz AM Transmitter
In-Reply-To: <550D62DF-15B7-4A4A-8140-CF6F33FB4A9A@cs.unc.edu>
References: <550D62DF-15B7-4A4A-8140-CF6F33FB4A9A@cs.unc.edu>
Message-ID: <B109B7F8-6B0E-4C3C-A945-BE39044A68C1@debitel.net>

Hello John,
this is indeed a very rare piece. I never saw one, I didn't even know that it existed. I have two SK 010 (100W CW/AM), a SK 050 (500W CW/AM) and an SK 1/39 (1kW CW/SSB and data). I even have a manual for the SK 080 (800W CW/AM).

Von meinem iPhone gesendet

Am 30.05.2012 um 22:24 schrieb john poulton <jp at cs.unc.edu>:

> For sale is a Rohde & Schwartz SK 030/41 transmitter. I bought this, and its twin, from Paul
> Kluwe about 6 years ago, and I'm making no progress getting it going (for lack of time and
> space), so thought it might be time to pass this along to someone who has the energy to get
> this beautiful thing on the air.
>
> This transmitter and its twin were delivered to the FAA back in the 50's for evaluation. Evidently they
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>
> 73, John K4OZY
>
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors
>

From wf2u at ws19ops.com Wed May 30 19:08:05 2012
From: wf2u at ws19ops.com (Meir WF2U)
Date: Wed, 30 May 2012 19:08:05 -0400
Subject: [BoatAnchors] history and evolution of the Collins gear
In-Reply-To: <20120529.195917.22327.0@webmail12.vgs.untd.com>
References: <20120529.195917.22327.0@webmail12.vgs.untd.com>
Message-ID: <4C514F49FFBA4686BA7EA9BB34F3D07A@MBDCONSULTING.LOCAL>

I wonder what the 73 article did to the ARC-2. Why does it need conversion
info? Convert it to what? It's plug-and-play, just feed it 28 VDC...

73, Meir WF2U
Landrum, SC

-----Original Message-----
From: boatanchors-bounces at theporch.com

[mailto:boatanchors-bounces at theporch.com] On Behalf Of k4pf at juno.com
Sent: Tuesday, May 29, 2012 7:59 PM
To: boatanchors at theporch.com
Subject: Re: [BoatAnchors] history and evolution of the Collins gear

Hi, Jay

Don't forget the Collins ARC-2 HF AM transceiver of about 1944.
It was an autotuned aircraft transceiver, with TX and RX freq both controlled by the same Permeability Tuned Oscillator.

See 73 magazine, Oct 1962, for photos, block diagrams and conversion info.

73,
Ed Knobloch

____
BoatAnchors mailing list
BoatAnchors at theporch.com
https://minime.theporch.com/mailman/listinfo/boatanchors

From wf2u at ws19ops.com Wed May 30 19:08:05 2012
From: wf2u at ws19ops.com (Meir WF2U)
Date: Wed, 30 May 2012 19:08:05 -0400
Subject: [BoatAnchors] history and evolution of the Collins gear
In-Reply-To: <p06110418cbeaf4887aac@[192.168.1.104]>
References: <BAY152-W543BC94D07B3AB820F4102A9040@phx.gbl>
     <p06110418cbeaf4887aac@[192.168.1.104]>
Message-ID: <02543678EB67493EB3CA1E886A37F79D@MBDCONSULTING.LOCAL>

Interesting that the first model of the Russian R-250 series receivers was manufactured in 1949. It also uses the calibrated variable first IF with the crystal converter in front of it, a la Collins. The difference is that while in the Collins the IF tunes a 1 MHz range, the R-250(*) tunes a 2 MHz range (1.5 to 3.5 MHz). The 215 kHz fixed second IF has a continuously variable bandwidth from 1 kHz to 14 kHz (same principle as in the Hammarlund SuperPro receiver). For additional selectivity options, audio frequency filtering with selectable bandwidths of 8, 5, 2.5 and 0.3 kHz is built in. The BFO has a calibrated tuning dial in the range of +/- 5 kHz from center frequency. There is a crystal calibrator, a delayed, amplified AGC which works on CW, and a separate detector for CW.
My experience with the R-250M version, manufactured in the mid-1950's is that it works great on SSB as well, the AGC is fully functional with the BFO on; no lack of BFO injection is observed. The R-250M uses standard metal octal tubes (all have US equivalents), running at 160 VDC plate voltage.

(The WW2 US Navy RAX receivers also used 160 VDC). This keeps the receiver cool, and the tube life long. Incidentally, the receiver has a built-in tube checker which reads the emission of each tube as selected, in operation. As long as the needle is within a certain indicated range, the tube is operating normally.

The receiver is somewhat larger than the R-390 series, and heavier. The power supply is a separate unit.

The R-250(*) were highly secret, were used for intercept work by the USSR government agencies, the military and the Soviet Navy.

I have to say that this receiver is the best octal tube receiver I ever used!

I wonder whether the Russians came up with the idea of crystal converter front end independently, or maybe they had a trickle of information from the Collins design team.

73, Meir WF2U
Landrum, SC

-----Original Message-----
From: boatanchors-bounces at theporch.com
[mailto:boatanchors-bounces at theporch.com] On Behalf Of Jay H. Miller
Sent: Tuesday, May 29, 2012 6:11 PM
To: boatanchors at theporch.com
Subject: Re: [BoatAnchors] history and evolution of the Collins gear

The post-war Collins receivers were:

75A	1946 (very few made)
75A-1	1947
75A-2	1950
75A-3	1952
75A-4	1955
51J-1	1949
51J-2	1950
51J-3	(R-388) 1955
51J-4	1957
51S-1	1959

....

*********** jay at kk5im.com ***********
Jay H. Miller, KK5IM   Dallas, Texas
NRA * ARRL * DXCC * S.A.S.S. #34,692
32? AASR *   MVPA #25,180
Website: http://www.kk5im.com
***** Proud to be 100% Macintosh since 1984! *****

____
BoatAnchors mailing list
BoatAnchors at theporch.com
https://minime.theporch.com/mailman/listinfo/boatanchors

From wf2u at ws19ops.com Wed May 30 19:19:38 2012
From: wf2u at ws19ops.com (Meir WF2U)
Date: Wed, 30 May 2012 19:19:38 -0400
Subject: [BoatAnchors] FS: Very Rare Rohde & Schwartz AM Transmitter
In-Reply-To: <B109B7F8-6B0E-4C3C-A945-BE39044A68C1@debitel.net>
References: <550D62DF-15B7-4A4A-8140-CF6F33FB4A9A@cs.unc.edu>
     <B109B7F8-6B0E-4C3C-A945-BE39044A68C1@debitel.net>
Message-ID: <78E0A7F6DEFC4705891A5ABD6147E43B@MBDCONSULTING.LOCAL>

Heinz,

I have the other SK 030/41. Due to so many projects and so little time, I still haven't got to turning it on, although I have to say that recently I found a nice 24 VDC coaxial vacuum relay to install in it for the T/R antenna relay. The plan is that probably I'll get to start testing it sometime late fall...

As to the SK 010, mine is still not operational. I never got more than about 10 W CW out of it when I tested it initially. The crystal oven is shot, although the oscillator is working, but the two bias pots in the output stage are bad. I found two similar ones but I haven't done anything further with this one either :-(.

73, Meir WF2U
Landrum, SC

-----Original Message-----
From: boatanchors-bounces at theporch.com
[mailto:boatanchors-bounces at theporch.com] On Behalf Of Heinz Breuer
Sent: Wednesday, May 30, 2012 6:59 PM
To: john poulton
Cc: boatanchors at theporch.com
Subject: Re: [BoatAnchors] FS: Very Rare Rohde & Schwartz AM Transmitter

Hello John,
this is indeed a very rare piece. I never saw one, I didn't even know that it existed. I have two SK 010 (100W CW/AM), a SK 050 (500W CW/AM) and an SK 1/39 (1kW CW/SSB and data). I even have a manual for the SK 080 (800W CW/AM).

Von meinem iPhone gesendet

```
From provero at ct.metrocast.net  Wed May 30 21:16:08 2012
From: provero at ct.metrocast.net (P.J. Rovero)
Date: Wed, 30 May 2012 21:16:08 -0400
Subject: [BoatAnchors] history and evolution of the Collins gear R390
	vsR390A
Message-ID: <61111.1338426968@ct.metrocast.net>
```

On Wed 05/30/12 18:45 , <wb3fau55 at neo.rr.com> wrote:

> there is no way to upgrade a 390 to 390A. the only thing similar
> in these are the front panel...

Collins wrote a report on the "cost reduction" redesign
from R-390 to R-390A, and how they maintained/improved
performance at reduced cost.

It's the design changes, not a conversion of one to
the other

P.J. "Josh" Rovero   Ham Radio: KK1D
Web: http://www.roveroresearch.info
Web2:   http://www.roveroresearch.org

```
From provero at ct.metrocast.net  Wed May 30 22:29:32 2012
From: provero at ct.metrocast.net (P.J. Rovero)
Date: Wed, 30 May 2012 22:29:32 -0400
Subject: [BoatAnchors] R-390/R-391 Cost Reduction Program
Message-ID: <62401.1338431372@ct.metrocast.net>
```

The report, in PDF format, may be found at:

   http://www.r-390a.net/faq-collins-cost.pdf

along with the R-389/R-390 final engineering report,

   http://www.r-390a.net/faq-eng-r3.pdf

Very interesting reading, at least in my opinion... :-)

P.J. "Josh" Rovero   Ham Radio: KK1D
Web: http://www.roveroresearch.info

Web2:   http://www.roveroresearch.org

From k4pf at juno.com Wed May 30 23:10:23 2012
From: k4pf at juno.com (k4pf at juno.com)
Date: Thu, 31 May 2012 03:10:23 GMT
Subject: [BoatAnchors] history and evolution of the Collins gear
Message-ID: <20120530.231023.29712.0@webmail02.vgs.untd.com>

> Meir WF2U <wf2u at ws19ops.com> wrote
>I wonder what the 73 article did to the ARC-2. Why does it need conversion info? Convert it to what? It's plug-and-play, just feed it 28 VDC...

Hi, Meir
The Oct 1962 "conversion" was just a matter of removing the dynamotor and installing both a transformer-based 28VDC supply and a transformerless HV supply in the spaced formerly used by the dynamotor.

There was another 73 article, June 1963, which increased the ARC-2 receive selectivity by adding some regenerative feedback around the IF stages, and reducing the coupling between IF stages.

73,
Ed Knobloch

From hbreuer at debitel.net Wed May 30 23:26:56 2012
From: hbreuer at debitel.net (Heinz Breuer)
Date: Thu, 31 May 2012 05:26:56 +0200
Subject: [BoatAnchors] history and evolution of the Collins gear
In-Reply-To: <02543678EB67493EB3CA1E886A37F79D@MBDCONSULTING.LOCAL>
References: <BAY152-W543BC94D07B3AB820F4102A9040@phx.gbl>
     <p06110418cbeaf4887aac@[192.168.1.104]>
     <02543678EB67493EB3CA1E886A37F79D@MBDCONSULTING.LOCAL>
Message-ID: <03F07C89-3CD3-43E2-9E95-1E3D0EABA88B@debitel.net>

Am 31.05.2012 um 01:08 schrieb "Meir WF2U" <wf2u at ws19ops.com>:

> Interesting that the first model of the Russian R-250 series receivers was
> manufactured in 1949...

snip
> The receiver is somewhat larger than the R-390 series, and heavier. The
> power supply is separate.

Somewhat larger   - LOL That's a good one.
It is about 4 times the weight and all dimensions are almost double that from a R-390.

I have 3 or 4 and a parts unit. I am getting to old for this. I can't lift it anymore.

vy 73 Heinz DH2FA, KM5VT

Von meinem iPhone gesendet

From john.shriver at gmail.com Wed May 30 23:33:22 2012
From: john.shriver at gmail.com (John Shriver)
Date: Wed, 30 May 2012 23:33:22 -0400
Subject: [BoatAnchors] ARC-2 power supply
In-Reply-To: <20120530.231023.29712.0@webmail02.vgs.untd.com>
References: <20120530.231023.29712.0@webmail02.vgs.untd.com>
Message-ID: <4FC6E682.50203@gmail.com>

In 1962, in the era of Selenium rectifiers, a 28 volt DC power supply that could run that dynamotor was a "big deal". It wasn't plug-and-play at all. I was but a tyke then, but serious silicon rectifiers were at least 5 years away.

On 5/30/2012 11:10 PM, k4pf at juno.com wrote:
>> Meir WF2U<wf2u at ws19ops.com> wrote
>> I wonder what the 73 article did to the ARC-2. Why does it need conversion
> info? Convert it to what? It's plug-and-play, just feed it 28 VDC...
>

From wf2u at ws19ops.com Wed May 30 23:46:55 2012
From: wf2u at ws19ops.com (Meir WF2U)
Date: Wed, 30 May 2012 23:46:55 -0400
Subject: [BoatAnchors] history and evolution of the Collins gear
In-Reply-To: <03F07C89-3CD3-43E2-9E95-1E3D0EABA88B@debitel.net>
References: <BAY152-W543BC94D07B3AB820F4102A9040@phx.gbl>
     <p06110418cbeaf4887aac@[192.168.1.104]>
     <02543678EB67493EB3CA1E886A37F79D@MBDCONSULTING.LOCAL>
     <03F07C89-3CD3-43E2-9E95-1E3D0EABA88B@debitel.net>
Message-ID: <7483E00CDF974D88BC31FEFA5E4EABD3@MBDCONSULTING.LOCAL>

Heinz,

I intended "somewhat larger" as a tongue in cheek understatement... Just didn't want to scare off people who may one to collect the R-250 :-)
Oh, talking about parts units - do you happen to have an extra glass "fine" dial for the projection system? My R-250M came with a completely blank glass disk and the spares case didn't have one in it. The small linear scale is usable to know where I am in the band, but of course doesn't have the resolution of the projection dial. I figured if I couldn't find a replacement, I'll try to have someone scan a dial with high resolution, which I can print on a mylar sheet. The mylar could be stuck on the glass disk.
Regarding lifting heavy boatanchors: who needs to go to a health club and work out with weights? Boatanchors are my gym equipment...

73, Meir WF2U
Landrum, SC

-----Original Message-----
From: Heinz Breuer [mailto:hbreuer at debitel.net]
Sent: Wednesday, May 30, 2012 11:27 PM
To: Meir WF2U
Cc: <boatanchors at theporch.com>
Subject: Re: [BoatAnchors] history and evolution of the Collins gear

Am 31.05.2012 um 01:08 schrieb "Meir WF2U" <wf2u at ws19ops.com>:

> Interesting that the first model of the Russian R-250 series receivers was
> manufactured in 1949...
snip
> The receiver is somewhat larger than the R-390 series, and heavier. The
> power supply is separate.

Somewhat larger - LOL That's a good one.
It is about 4 times the weight and all dimensions are almost double that from a R-390.

I have 3 or 4 and a parts unit. I am getting to old for this. I can't lift it anymore.

vy 73 Heinz DH2FA, KM5VT

Von meinem iPhone gesendet

From arc5 at ix.netcom.com Thu May 31 00:57:05 2012
From: arc5 at ix.netcom.com (David Stinson)

Date: Wed, 30 May 2012 23:57:05 -0500
Subject: [BoatAnchors] ARC-2 power supply
In-Reply-To: <4FC6E682.50203@gmail.com>
References: <20120530.231023.29712.0@webmail02.vgs.untd.com>
     <4FC6E682.50203@gmail.com>
Message-ID: <70E3FFC663C94D51A82AAFAB9FFF71D2@DaddyPC>

----- Original Message -----
From: "John Shriver" <john.shriver at gmail.com>
Subject: Re: [BoatAnchors] ARC-2 power supply

> In 1962, in the era of Selenium rectifiers, a 28 volt DC power
> supply that could run that dynamotor was a "big deal". It wasn't
> plug-and-play at all. I was but a tyke then, but serious silicon
> rectifiers were at least 5 years away.
>
> On 5/30/2012 11:10 PM, k4pf at juno.com wrote:
>>> Meir WF2U<wf2u at ws19ops.com> wrote
>>> I wonder what the 73 article did to the ARC-2. Why does it need
>>> conversion
>> info? Convert it to what? It's plug-and-play, just feed it 28
>> VDC...

My ARC-2, BC-375 and most other 28-volt dynamotor rigs
are powered by two hefty batteries.
They are kept charged at 27 volts by a recycled, rack-mount
 900 watt computer Uninterruptable Power Supply (UPS)
which used to have 24 volts worth of those small black lead-acid
cells.
I soldered heavy- duty wire to the old battery leads and ran them
external to the batteries and thence to the load.
The batteries stay charged 24-7. I have run the ARC-2 over 3 hours
and the batteries never dropped below 25 volts. A nice "perk":
I also have hours of 115 VAC available if my lights go out.
I have two of these set-ups for 24-volt rigs and one smaller recycled
UPS for the 12-volt SCR-183. Will need to change the batteries
in about 3 to 4 years, on average. Also thinking of dropping the
charge
voltage a little bit. Very important to use good heavy gauge wire
and good connections to the batteries and to the load.
If you're running a dynamotor at 26 volts at 10 amps and your wiring
has just a half-Ohm of resistance, your rig is only going to get 21
volts
and your wiring has to dissipate 50 watts of heat.
Better to spring for the good wire ;-)

73 Dave S.

From WA5CAB at cs.com Thu May 31 11:03:27 2012
From: WA5CAB at cs.com (WA5CAB at cs.com)
Date: Thu, 31 May 2012 11:03:27 -0400 (EDT)
Subject: [BoatAnchors] ARC-2 power supply
Message-ID: <bef6f.87486e7.3cf8e23f@cs.com>

In 1962, silicon diodes were already in production and already hitting the surplus market. Plus large selenium rectifiers had been available on the surplus market for years. I've never seen the article. I didn't like either 73 or Wayne Green. But the thing that caught my eye from the description someone posted yesterday was the transformerless HV power supply.

In a message dated 05/30/2012 22:33:43 PM Central Daylight Time,
john.shriver at gmail.com writes:
> In 1962, in the era of Selenium rectifiers, a 28 volt DC power supply
> that could run that dynamotor was a "big deal". It wasn't plug-and-play
> at all. I was but a tyke then, but serious silicon rectifiers were at
> least 5 years away.
>
> On 5/30/2012 11:10 PM, k4pf at juno.com wrote:
> >>Meir WF2U<wf2u at ws19ops.com> wrote
> >>I wonder what the 73 article did to the ARC-2. Why does it need
> conversion
> >info? Convert it to what? It's plug-and-play, just feed it 28 VDC...
> >

Robert Downs - Houston
wa5cab dot com (Web Store)
MVPA 9480

From smithab11 at comcast.net Thu May 31 11:45:08 2012
From: smithab11 at comcast.net (B Smith)
Date: Thu, 31 May 2012 11:45:08 -0400
Subject: [BoatAnchors] ARC-2 power supply
In-Reply-To: <bef6f.87486e7.3cf8e23f@cs.com>
References: <bef6f.87486e7.3cf8e23f@cs.com>
Message-ID: <69AE858B330648F3BA644B52247FDCEE@Dell560>

Most conversion articles on the ARC-2 involved a fairly simple modification of the OSC section turning it in a VFO so that you had a 2 meter "transceiver", which in 1962 - -   - when just about everyone was rock bound, a variable tuned receiver which had the

transmitter tracking it was a very big deal. The "self healing"
Selenium Rectifiers were fairly cheap
and were just about perfect for a high current surge 28 volt power
supply and many supplies were built.

The ARC-2 has been fairly popular at our East Coast meets and we have
just about established that 144.250 is the calling frequency.

I sort of enjoyed Wayne but he was a pain when he got permission to
travel on MATS aircraft on the West Coast.

breck k4che

From: <WA5CAB at cs.com>
Sent: Thursday, May 31, 2012 11:03 AM
To: <boatanchors at theporch.com>
Subject: Re: [BoatAnchors] ARC-2 power supply

In 1962, silicon diodes were already in production and already hitting
the
surplus market. Plus large selenium rectifiers had been available on
the
surplus market for years. I've never seen the article. I didn't like
either
73 or Wayne Green. But the thing that caught my eye from the
description
someone posted yesterday was the transformerless HV power supply.

In a message dated 05/30/2012 22:33:43 PM Central Daylight Time,
john.shriver at gmail.com writes:
> In 1962, in the era of Selenium rectifiers, a 28 volt DC power
> supply
> that could run that dynamotor was a "big deal". It wasn't
> plug-and-play
> at all. I was but a tyke then, but serious silicon rectifiers were
> at
> least 5 years away.
>
> On 5/30/2012 11:10 PM, k4pf at juno.com wrote:
> >>Meir WF2U<wf2u at ws19ops.com> wrote
> >>I wonder what the 73 article did to the ARC-2. Why does it need
> conversion
> >info? Convert it to what? It's plug-and-play, just feed it 28
> >VDC...
> >

Robert Downs - Houston
wa5cab dot com (Web Store)
MVPA 9480

____
BoatAnchors mailing list
BoatAnchors at theporch.com
https://minime.theporch.com/mailman/listinfo/boatanchors

From arc5 at ix.netcom.com Thu May 31 11:57:19 2012
From: arc5 at ix.netcom.com (David Stinson)
Date: Thu, 31 May 2012 10:57:19 -0500
Subject: [BoatAnchors] ARC-2 power supply
In-Reply-To: <bef6f.87486e7.3cf8e23f@cs.com>
References: <bef6f.87486e7.3cf8e23f@cs.com>
Message-ID: <7414A9F596DA45FD8A69505A63F1CBEA@DaddyPC>

----- Original Message -----
From: <WA5CAB at cs.com>
Subject: Re: [BoatAnchors] ARC-2 power supply

>..... But the thing that caught my eye from the description
> someone posted yesterday was the transformerless HV power supply.

I have the article in my files. I could scan it if someone wants it,
but I do NOT recommend it at all.
500 or 600 unisolated volts running-around
is an open invitation to serious snake-bite.

If you don't have the dynamotor or a big 24 volt supply,
it's easy to unscrew one of the air vents on the back and
you've got instant, no-drill access to the power pins.
24 VDC supplies are common now and can be found
at a reasonable price with a little effort.

I just looked and found a new switcher, 24 volts at 15 amps,
FREE shipping, and it's only $28.   Many available.
That's a screaming deal even if you have to
install it in a box with RF filters, and you may not.
Item 310312941221.   It may not start you dynamotor
(I have similar supplies from Astec that will),
but it will certainly run the autotune, fils and relays.

73 Dave AB5S

From k4oah at mindspring.com Thu May 31 12:02:47 2012
From: k4oah at mindspring.com (Garey Barrell)
Date: Thu, 31 May 2012 12:02:47 -0400
Subject: [BoatAnchors] Heathkit IM-18
In-Reply-To: <p06110418cbeaf4887aac@[192.168.1.104]>
References: <BAY152-W543BC94D07B3AB820F4102A9040@phx.gbl>
     <p06110418cbeaf4887aac@[192.168.1.104]>
Message-ID: <4FC79627.3040900@mindspring.com>

OK, I give up.........

I have an IM-18 that has been working for years. Turned it on, and the meter pegs 'downscale' on
'AC'.   On 'DC-' it pegs downscale, on 'DC+' it pegs upscale. ZERO control has no visible effect.
No combination of the CAL controls makes any visible effect. Interestingly, results are identical
with the 12AU7 removed. DC voltages on the power supply capacitor are nominal. Whoever built it
did a VERY nice job, beautiful solder on board and switch. Close visual examination shows not
obvious shorts, bridges, etc.

Open to ideas or suggestions..

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

From smithab11 at comcast.net Thu May 31 13:10:03 2012
From: smithab11 at comcast.net (B Smith)
Date: Thu, 31 May 2012 13:10:03 -0400
Subject: [BoatAnchors] ARC-2 power supply
In-Reply-To: <4FC79F8C.6040206@ar88.net>
References: <bef6f.87486e7.3cf8e23f@cs.com>
     <69AE858B330648F3BA644B52247FDCEE@Dell560>
     <4FC79F8C.6040206@ar88.net>
Message-ID: <C4FA1F6D17914EF1B754D9B7B200FE79@Dell560>

Ops sorry, ARC-1

breck

From: "Al Klase" <ark at ar88.net>
Sent: Thursday, May 31, 2012 12:42 PM
To: "B Smith" <smithab11 at comcast.net>
Subject: Re: [BoatAnchors] ARC-2 power supply

Me thinks you have the wrong ARC. ARC-1? The ARC-2 is an HF set. -
Al

On 5/31/2012 11:45 AM, B Smith wrote:
> Most conversion articles on the ARC-2 involved a fairly simple
> modification of the OSC section turning it in a VFO so that you
> had
> a 2 meter "transceiver", which in 1962 - -   - when just about
> everyone was rock bound, a variable tuned receiver which had the
> transmitter tracking it was a very big deal. The "self healing"
> Selenium Rectifiers were fairly cheap
> and were just about perfect for a high current surge 28 volt power
> supply and many supplies were built.
>
>   The ARC-2 has been fairly popular at our East Coast meets and we
> have
> just about established that 144.250 is the calling frequency.
>
> I sort of enjoyed Wayne but he was a pain when he got permission to
> travel on MATS aircraft on the West Coast.
>
>
> breck k4che
>
> --
> From:<WA5CAB at cs.com>
> Sent: Thursday, May 31, 2012 11:03 AM
> To:<boatanchors at theporch.com>
> Subject: Re: [BoatAnchors] ARC-2 power supply
>
> In 1962, silicon diodes were already in production and already
> hitting
> the
> surplus market. Plus large selenium rectifiers had been available
> on
> the
> surplus market for years. I've never seen the article. I didn't
> like

> either
> 73 or Wayne Green. But the thing that caught my eye from the
> description
> someone posted yesterday was the transformerless HV power supply.
>
> In a message dated 05/30/2012 22:33:43 PM Central Daylight Time,
> john.shriver at gmail.com writes:
>> In 1962, in the era of Selenium rectifiers, a 28 volt DC power
>> supply
>> that could run that dynamotor was a "big deal". It wasn't
>> plug-and-play
>> at all. I was but a tyke then, but serious silicon rectifiers were
>> at
>> least 5 years away.
>>
>> On 5/30/2012 11:10 PM, k4pf at juno.com wrote:
>>>> Meir WF2U<wf2u at ws19ops.com>   wrote
>>>> I wonder what the 73 article did to the ARC-2. Why does it need
>> conversion
>>> info? Convert it to what? It's plug-and-play, just feed it 28
>>> VDC...
>>>
> Robert Downs - Houston
> wa5cab dot com (Web Store)
> MVPA 9480

> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors
>
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.2171 / Virus Database: 2425/5035 - Release Date:
> 05/31/12

--
Al Klase - N3FRQ
Jersey City, NJ
http://www.skywaves.ar88.net/

From kd5byb at kd5byb.net Thu May 31 20:13:58 2012

From: kd5byb at kd5byb.net (Ben Hall)
Date: Thu, 31 May 2012 19:13:58 -0500
Subject: [BoatAnchors] Odd Farnsworth Power Supply
Message-ID: <4FC80946.6070603@kd5byb.net>

Good evening all,

Spotted this power supply on the e-place and just couldn't resist buying it for a bunch of reasons:

1) it was very odd looking
2) it had CK1006 rectifiers, two of them!
3) it had non-electrolytic caps instead of electrolytic caps
4) I've been building power supplies and figured I could use the iron at a minimum

So it became mine. And it's even more odd in person. So I'm wondering exactly what it was used with / for. Any hints / thoughts / guesses are appreciated.

So for your viewing pleasure (or viewing boredom, ha!)...

First, an overall photo. Almost looks sort of art-deco to me, but I'm sure I'm using the term "art deco" improperly.
<http://www.kd5byb.net/oddps/oddps1.jpg>

Removing the top cover, you can see its very clever arrangement for securing the cover with two dogs and a twist-handle. There is another dog on the front of the cover out of view.
<http://www.kd5byb.net/oddps/oddps2.jpg>

It was manufactured and sold under Farnsworth patent rights, but but licensed under Hazeltine patent rights. Interesting. I think I've seen similar on Hammarlund receivers? You can also see the top of one of the CK1006 tubes.
<http://www.kd5byb.net/oddps/oddps7.jpg>

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<http://www.kd5byb.net/oddps/oddps8.jpg>

Here's the odd connector. Sort of reminds me of a military connector, but I don't remember where I saw it or what it was called.
<http://www.kd5byb.net/oddps/oddps6.jpg>

It's got a lot of iron. I haven't traced the schematic out yet, but it appears to have two HV circuits plus filament circuits. Certainly, a

lot of iron.
<http://www.kd5byb.net/oddps/oddps5.jpg>

The wiring underneath also suggests "military" to me. What's very odd is that there is no bottom plate. It has that fancy two-dog cover, but not bottom cover. I think it was made to be mounted to something.

It is also not "hard-core military" if that makes any sense. While hard to see in the photo, the resistors are mounted to threaded stand-offs, not terminal strips. The fuses are cartridge units, not the smaller glass units (3AG?).
<http://www.kd5byb.net/oddps/oddps9.jpg>

thanks and 73,
ben, kd5byb

From wb3fau55 at neo.rr.com Thu May 31 20:37:38 2012
From: wb3fau55 at neo.rr.com (wb3fau55 at neo.rr.com)
Date: Thu, 31 May 2012 20:37:38 -0400
Subject: [BoatAnchors] R-390/R-391 Cost Reduction Program
In-Reply-To: <62401.1338431372@ct.metrocast.net>
Message-ID: <20120601003738.UYEE3.305.root@cdptpa-web09-z01>

of passing interest Josh, I have a National NC-300 which is real amazing for its age. Not too good on
birdies and image rejection, but very sensitive thru 10 meters...Russ.
---- "P.J. Rovero" <provero at ct.metrocast.net> wrote:
> The report, in PDF format, may be found at:
>
>   http://www.r-390a.net/faq-collins-cost.pdf
>
> along with the R-389/R-390 final engineering report,
>
>   http://www.r-390a.net/faq-eng-r3.pdf
>
> Very interesting reading, at least in my opinion... :-)
>
> P.J. "Josh" Rovero   Ham Radio: KK1D
> Web: http://www.roveroresearch.info
> Web2:   http://www.roveroresearch.org
>
>
>
> ____
> BoatAnchors mailing list
> BoatAnchors at theporch.com
> https://minime.theporch.com/mailman/listinfo/boatanchors

From jerry7proc at yahoo.com Thu May 31 21:32:24 2012
From: jerry7proc at yahoo.com (Jerry Proc)
Date: Thu, 31 May 2012 18:32:24 -0700 (PDT)
Subject: [BoatAnchors] Green Keys
Message-ID: <1338514344.63134.YahooMailNeo@web122601.mail.ne1.yahoo.com>

Hello Green Key Fans,
?
Some 25 years after I last touched a Teletype machine, I just found out that I have been referring to them incorrectly.
?
All machines made by Teletype Corporation are designated first by Model, then by configuration.? Only?third party customers (such as the now defunct?Digital Equipment Corp) reversed this standard. Why they did this is anyone's guess.? Hence a Model 28 Automatic Send and Receive set is a model? 28ASR, ?and *not* an ASR28.
?
For a decade and a half, I maintained mainframes and peripherals made by?DEC. They were one of the OEM?s who opted to reverse the Teletype Corp designation system and proliferate it in all their technical literature. (Some of it still survives here). For me, and up to now, ?a minicomputer I/O device was always an ?ASR33? instead of the correct term ?33ASR? .

Thought this might be useful reference info.? It was Don?House, Curator Emeritus of the NADCOMM
Museum who brought this to my attention.?
--
Regards,
Jerry Proc
E-mail: jerry7proc at yahoo.com

From WA5CAB at cs.com Thu May 31 22:27:56 2012
From: WA5CAB at cs.com (WA5CAB at cs.com)
Date: Thu, 31 May 2012 22:27:56 -0400 (EDT)
Subject: [BoatAnchors] Odd Farnsworth Power Supply
Message-ID: <d4443.45ffcf1f.3cf982ac@cs.com>

I've no idea what the supply was used with. The cover and cabinet style say 50's civilian to me. I would guess some VHF FM base station sold to civilian law enforcement.

The connector seems familiar because the body and insert are the same Cannon DPD-32C2-34P used on the mahor components of SCR-508/608/808, less a lot of contacts. The two large empty holes are for coaxial contacts. My guess is that it was purchased as suffix -FO (without contacts) and assembled by

Farnsworth with only the needed contacts.

In a message dated 05/31/2012 19:11:49 PM Central Daylight Time,
kd5byb at kd5byb.net writes:
> Good evening all,
>
> Spotted this power supply on the e-place and just couldn't resist buying
> it for a bunch of reasons:
>
> 1) it was very odd looking
> 2) it had CK1006 rectifiers, two of them!
> 3) it had non-electrolytic caps instead of electrolytic caps
> 4) I've been building power supplies and figured I could use the iron
> at a minimum
>
> So it became mine. And it's even more odd in person. So I'm wondering
> exactly what it was used with / for. Any hints / thoughts / guesses are
> appreciated.
>
> So for your viewing pleasure (or viewing boredom, ha!)...
>
> First, an overall photo. Almost looks sort of art-deco to me, but I'm
> sure I'm using the term "art deco" improperly.
> <http://www.kd5byb.net/oddps/oddps1.jpg>
>
> Removing the top cover, you can see its very clever arrangement for
> securing the cover with two dogs and a twist-handle. There is another
> dog on the front of the cover out of view.
> <http://www.kd5byb.net/oddps/oddps2.jpg>
>
> It was manufactured and sold under Farnsworth patent rights, but but
> licensed under Hazeltine patent rights. Interesting. I think I've seen
> similar on Hammarlund receivers? You can also see the top of one of the
> CK1006 tubes.
> <http://www.kd5byb.net/oddps/oddps7.jpg>
>
> The label says it is a Farnsworth model M304-2 power supply. Google
> turns up nothing. The 50/60 cycle label suggests to me that it was made
> with export in mind, and made before we switched to Hertz.
> <http://www.kd5byb.net/oddps/oddps8.jpg>
>
> Here's the odd connector. Sort of reminds me of a military connector,
> but I don't remember where I saw it or what it was called.
> <http://www.kd5byb.net/oddps/oddps6.jpg>
>
> It's got a lot of iron. I haven't traced the schematic out yet, but it
> appears to have two HV circuits plus filament circuits. Certainly, a
> lot of iron.

> <http://www.kd5byb.net/oddps/oddps5.jpg>
>
> The wiring underneath also suggests "military" to me. What's very odd
> is that there is no bottom plate. It has that fancy two-dog cover, but
> not bottom cover. I think it was made to be mounted to something.
>
> It is also not "hard-core military" if that makes any sense. While hard
> to see in the photo, the resistors are mounted to threaded stand-offs,
> not terminal strips. The fuses are cartridge units, not the smaller
> glass units (3AG?).
> <http://www.kd5byb.net/oddps/oddps9.jpg>
>
> thanks and 73,
> ben, kd5byb

Robert & Susan Downs - Houston
wa5cab dot com (Web Store)
MVPA 9480

From k4oah at mindspring.com Thu May 31 23:50:10 2012
From: k4oah at mindspring.com (Garey Barrell)
Date: Thu, 31 May 2012 23:50:10 -0400
Subject: [BoatAnchors] Heathkit IM-18
In-Reply-To: <20120601001404.K47NL.195.root@cdptpa-web09-z01>
References: <20120601001404.K47NL.195.root@cdptpa-web09-z01>
Message-ID: <4FC83BF2.7080702@mindspring.com>

Russ and others who replied -

I finally got back to the VTVM. The problem was a short from the case to the 'hot' terminal of the DC CAL pot. After you all calmed me down from my frustration I had to agree that the bridge was obviously unbalanced, and with the tube out, there was nowhere for the current to go other than through a pot or the switch. As I said earlier, the original builder did a beautiful job, and there were NO solder bridges, left over lead clippings, etc. floating around in there. I measured from one side of the bridge, (Pin 3,) and measured 47 ohms to ground. Now I had something I could work with.!

So I did what they do on TV, I 'pulled the red wire' out of the PC board and measured from the pad to ground and sure enough, still 47 ohms to ground. After some solder sucking (thank you Mr Hakko!) and isolating pins on the three CAL pots, I determined that the DC CAL pot was

indeed shorted to
it's case. A little pot surgery showed no animal carcasses, solder blobs or other detritus floating
inside, so I re-assembled and measured open from all pins to case on the pot. So I re-installed it,
replaced the leads I had to disconnect to get to the board, and fired it up.
Perfect!

So it's cooking in on the bench, and I'll CAL in the morning.

Thanks again for all the 'directed thinking' I needed. It's so nice when one actually comes together!

73, Garey - K4OAH
Glen Allen, VA

Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
and TR-4/C Service Supplement CDs
<www.k4oah.com>

wb3fau55 at neo.rr.com wrote:
> Garey, check for a shorted bypass or coupling cap. 12AU7 is likely OK since you
> pulled it and same results...Russ.
> ---- Garey Barrell<k4oah at mindspring.com> wrote:
>> OK, I give up.........
>>
>> I have an IM-18 that has been working for years. Turned it on, and the meter pegs 'downscale' on
>> 'AC'.   On 'DC-' it pegs downscale, on 'DC+' it pegs upscale. ZERO control has no visible effect.
>> No combination of the CAL controls makes any visible effect. Interestingly, results are identical
>> with the 12AU7 removed. DC voltages on the power supply capacitor are nominal. Whoever built it
>> did a VERY nice job, beautiful solder on board and switch. Close visual examination shows not
>> obvious shorts, bridges, etc.
>>
>> Open to ideas or suggestions..
>>
>> 73, Garey - K4OAH
>> Glen Allen, VA
>>
>> Drake 2-B, 2-C/2-NT, 4-A, 4-B, C-Line
>> and TR-4/C Service Supplement CDs
>> <www.k4oah.com>
>>

>>
>>
>> ____
>> BoatAnchors mailing list
>> BoatAnchors at theporch.com
>> https://minime.theporch.com/mailman/listinfo/boatanchors
>